

ID		WBS	Task Name	Contact	Resource Initials
0			<b>D0 Grid Production Computing Initiative</b>	<b>ehnlein</b>	
1		1	<b>D0 Grid Production Architecture</b>	AL	
2		1.1	INPUT: Original architecture document v1.2	AL	AL
3		1.2	High-level Architecture Document: draft - APIs, component responsibilities	AL	ASB,AL
4		1.3	milestone: Draft High-level Architecture Document	AL	AL
5		1.4	High-level Architecture Document: Review	AL	RDK,ASB
6		1.5	High-level Architecture Document: Revised version	AL	AL
7		1.6	High-level Architecture Document: Approval - ASB	AL	RDK
8		1.7	High-level Architecture Document: Approval - VW	AL	RDK
9		1.8	MILE 7: D0 Grid Production Architecture document done	AL	
10		2	<b>Adjust Responsibilities among SamGrid, D0runjob, D0repro, automic tools</b>	GG	
11		2.1	INPUT: Review of D0runjob interface	PM	PM
12		2.2	<b>Decouple D0runjob macro and SamGrid</b>	GG	
13		2.2.1	INPUT: Interface changes documented	GG	PM
14		2.2.2	Decouple D0runjob macro and SamGrid development work	GG	PL
15		2.2.3	Decoupling: MC Job Type: SamGrid Integration	GG	PM
16		2.3	<b>Ability to store output at any stage on demand</b>	GG	
17		2.3.1	Store output from any stage: SamGrid development/integration	GG	PM
18		2.3.2	Store output from any stage: Describe suitable test of feature	GG	PM
19		2.3.3	Store output from any stage: Create/submit requests to test feature	GG	MRQ
20		2.3.4	Store output from any stage: Production-level test	GG	JS
21		2.3.5	MILE 22: Store output from any stage of processing	GG	
22		2.4	<b>Start Prod via SAM Definition from Stage 2 of Prod: v1</b>	GG	
23		2.4.1	INPUT: Start Prod at Stage 2: D0runjob development	GG	PL
24		2.4.2	Start Prod at Stage 2: SamGrid development/integration	GG	PM
25		2.4.3	Start Prod at Stage 2: Production-level test	GG	JS
26		2.4.4	MILE 2: Start (MC) Production at Stage 2 - Working	GG	
27		2.5	<b>Error Recovery in Phased Processing</b>	GG	
28		2.5.1	Error Recovery: SamGrid development/integration	GG	PM
29		2.5.2	Error Recovery: Production-level test	GG	JS
30		2.5.3	milestone: Error Recovery in Phased Processing	GG	
31		2.6	<b>D0repro tools adapted to use Sam v7 request system</b>	GG	
32		2.6.1	D0repro tools adaptation: First 50% implementation	DW	DW
33		2.6.2	D0repro tools adaptation: Next 40% implementation	DW	DW
34		2.6.9	D0repro tools adaptation: Final 10% implementation	DW	DW
35		2.6.3	D0repro tools adaptation: Request impact on SamGrid and/or D0runjob	GG	RDK,GG
36		2.6.8	D0repro tools adaptation: Fix python interface to SAM request system	AL	SS
37		2.6.4	D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App	GG	PM
38		2.6.5	D0repro tools adaptation: Adjust D0runjob to use request system	GG	PL
39		2.6.6	D0repro tools adaptation: Production-level test	GG	JS
40		2.6.7	MILE 14: D0repro-tools uses Sam v7 request system	GG	
41		2.7	<b>Resolve how to add production paths in future</b>	GG	

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42		2.7.1 Generalization of Job Types according to I/O Characteristics	GG	PM
43		2.7.2 Resolve how to add production paths in future: Document	GG	PM
44		2.7.3 Resolve how to add production paths in future: D0 Approval	GG	ASB
45		2.7.4 MILE 20: How to add production paths in future - resolved	GG	
46	2.8	<b>Support testing v7/d0runjob/SamGrid functionality</b>	GG	
47	2.8.1	Survey current understanding of testing procedures	GG	RDK
48	2.8.2	D0GPCI FNAL testing meeting	GG	
49	2.8.3	Testing responsibilities, procedures proposal	GG	GG
50	2.8.4	Agreement on Component and Integration testing	GG	GG,PL
51	2.8.5	Evaluate how D0runjob should set up WN environment	GG	AB2
52	2.8.6	D0runjob sets up its own environment	GG	PL
53	2.8.7	Evaluate and sign-off on test facilities and procedures	GG	PL,DW,JS
54	2.8.8	MILE 18: Support testing v7/d0runjob/SamGrid functionality	GG	
55	2.9	<b>Start Prod via SAM Definition from Stage 2 of Prod: v2</b>	GG	
56	2.9.1	Start Prod at Stage 2: SamGrid notification=all bug fix	GG	PM
57	2.9.2	Start Prod at Stage 2: Production-level re-test	GG	JS
58	2.9.3	<b>milestone: Start Prod at Stage 2 Ready for Production Release</b>	GG	
59	2.10	<b>Evaluate Extensions to Development</b>	GG	
60	2.10.1	D0runjob/SamGrid Decoupling: Skim Job Type	GG	
61	2.10.2	D0runjob/SamGrid Decoupling: Reco Job Type	GG	
62	2.10.3	D0runjob/SamGrid Decoupling: Merge Job Type	GG	
63	2.10.4	Start Prod via SAM Definition from Stage 3+ of Prod	GG	
64	2.10.5	Fabric interface no longer dependent on Job Type	GG	
65	2.10.6	All merge code into D0runjob	PL	
66	2.10.7	Write evaluation of extensions to development	GG	GG
67	2.11	MILE 26: Tools have defined API, testing responsibilities	GG	
68	3	<b>Transition Operations Support from SamGrid Dev to Run2 Ops</b>	GG,AL	
69	3.1	<b>Operations Documentation</b>	AL	
70	3.1.1	<b>Data Queues Doc</b>	AL	
71	3.1.1.1	INPUT: Data Queues Doc: Recent Draft	AL	AB2
72	3.1.1.2	Data Queues Doc: Feed-back, update	AL	AB3,AB2
73	3.1.1.3	Data Queues Doc: Approve	AL	AL
74	3.1.1.4	Data Queues Doc: Integrate into SamGrid Documentation	AL	DZ,AL
75	3.1.1.5	<b>milestone: Data Queues Doc: Completed</b>	AL	
76	3.1.2	<b>Forwarding Node Installation Doc</b>	AL	
77	3.1.2.1	INPUT: Fwd Node Install Doc: Recent Draft	AL	DZ
78	3.1.2.2	Fwd Node Install Doc: Hardware prep attempt	AL	SS
79	3.1.2.3	Fwd Node Install Doc: Feed-back	AL	SS
80	3.1.2.4	Fwd Node Install Doc: Integrate Dehong and Steve's documents	AL	DZ,SS
81	3.1.2.5	Fwd Node Install Doc: Approve	AL	AL
82	3.1.2.6	Fwd Node Install Doc: Integrate into SamGrid Installation Manual	AL	DZ
83	3.1.2.7	<b>milestone: Fwd Node Install Doc: Completed</b>	AL	

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84	✓	3.1.3	<b>Integrating SRM Storage with SAM Doc</b>	GG	
85	✓	3.1.3.1	SRM with SAM Doc: Integrate into SamGrid Documentation	GG	AB2
86	✓	3.1.3.2	milestone: SRM with SAM Doc: Completed	GG	
87	✓	3.1.4	<b>Operations Policies Doc</b>	AL	
88	✓	3.1.4.1	Operations Policies doc: Draft	AL	AL
89	✓	3.1.4.2	Operations Policies doc: Review	AL	GG,RDK
90	✓	3.1.4.3	Operations Policies doc: Revised version	AL	AL
91	✓	3.1.4.4	Operations Policies doc: Review, agreement	AL	
92		3.1.4.5	Operations Policies doc: Final version	AL	AL
93		3.1.4.6	Operations Policies doc: Approve - CD, D0	AL	ASB,RDK
94		3.1.4.7	MILE 13: Grid Production Operations Policies doc done	AL	
95		3.1.5	milestone: Operations Documentation completed	AL	
96	✓	3.2	<b>Operations Reduction and Transfer Planning</b>	GG,AL	
97	✓	3.2.1	<b>Current Operations Description</b>	GG	
98	✓	3.2.1.1	INPUT: Write-up of operations issues	GG	GG
99	✓	3.2.1.2	Current Operations description: draft - level and causes	GG	GG
100	✓	3.2.1.3	Current Operations description: Review	GG	M,RDK,AL
101	✓	3.2.1.4	Current Operations description: Revised version	GG	GG
102	✓	3.2.1.5	Current Operations description: Approve	GG	ASB
103	✓	3.2.1.6	milestone: Current Operations description	GG	
104	✓	3.2.2	<b>Future Operations Staffing Doc</b>	AL	
105	✓	3.2.2.1	INPUT: FY08 REX budget determined	RS	RS,AL
106	✓	3.2.2.2	Future Operations description: draft - acceptable load level and activities	AL	RS,AL
107	✓	3.2.2.3	Future Operations description: Review	AL	,RDK,ASB
108	✓	3.2.2.4	Future Operations description: Approve	AL	ASB
109	✓	3.2.2.5	milestone: Future Operations description	AL	
110	✓	3.2.3	<b>Operations Reduction Plan: "Road To Operations"</b>	GG	
111	✓	3.2.3.1	INPUT: Operations Reduction plan: Monitoring, Alarms proposal	GG	AB2
112	✓	3.2.3.2	Operations Reduction plan: Overall draft	GG	GG
113	✓	3.2.3.3	Operations Reduction plan: Review	GG	B,RDK,AL
114	✓	3.2.3.4	Operations Reduction plan: Revised version	GG	GG,AB2
115	✓	3.2.3.5	MILE 4: Operations Reduction plan: Working plan ready	GG	
116	✓	3.2.3.6	Operations Reduction plan: Coordinate w/FEF	GG	GG
117	✓	3.2.3.7	Operations Reduction plan: Approve - CD, D0	GG	ASB,RDK
118	✓	3.2.3.8	milestone: Operations Reduction plan completed	GG	
119	✓	3.2.4	milestone: Operations Reduction and Transfer Planning completed	GG	
120		3.3	<b>Operations Transfer Execution</b>	GG,AL	
121	✓	3.3.1	<b>Operations Transfer: Phase 1 (Checklist)</b>	GG,AL	
122	✓	3.3.1.1	<b>SamGrid Requests to Sam Issue Tracker</b>	GG,AL	
123	✓	3.3.1.1.1	Request SamGrid Users to open tickets	GG,AL	GG
124	✓	3.3.1.1.2	Inform Sam shifters about handling SamGrid Requests	GG,AL	AL
125	✓	3.3.1.1.3	milestone: SamGrid Requests to Sam Issue Tracker	GG,AL	

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126	✓ 	3.3.1.2 <b>SamGrid Operations Checklist</b>	GG	
127	✓	3.3.1.2.1 Write-up checklist	GG	PM
128	✓	3.3.1.2.2 Review checklist	GG	GG,AL
129	✓	3.3.1.2.3 Revise checklist	GG	PM
130	✓	3.3.1.2.4 Checklist training, trial run	GG	PM,AL
131	✓	3.3.1.2.5 Fine-tune checklist per feed-back	GG	PM
132	✓	3.3.1.2.6 <b>milestone: SamGrid Operations Checklist Transferred</b>	GG	
133	✓	3.3.1.3 <b>Adapt Operations Checklist to Ops-oriented Format</b>	AL	AL,GG
134	✓	3.3.1.3.1 Adapt to Ops-oriented format	AL	AL
135	✓	3.3.1.3.2 Review, sign-off by GG, AB2	AL	GG,AB2
136	✓	3.3.1.3.3 <b>milestone: Adapt Operations Checklist to Ops-oriented Format</b>	AL	
137	✓	3.3.1.4 <b>MILE 3: Manual Checklist - Phase 1/4 of Ops Transfer done</b>	GG,AL	
138	✓ 	3.3.2 <b>Operations Transfer: Phase 2 (Fwd Nodes, Stations)</b>	GG,AL	
139	✓	3.3.2.1 REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
140	✓	3.3.2.2 Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
141	✓	3.3.2.3 <b>MILE 5: Fwd Nodes - Phase 2/4 of Ops Transfer done</b>	GG,AL	
142	✓ 	3.3.3 <b>Operations Transfer: Phase 3 (Durable Locations, Queueing Nodes)</b>	GG,AL	
143	✓	3.3.3.1 REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
144	✓	3.3.3.2 Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
145	✓	3.3.3.3 <b>MILE 10: Queueing,Durable Nodes - Phase 3/4 of Ops Transfer done</b>	GG,AL	
146	✓ 	3.3.4 <b>Operations Transfer: Phase 4 (Jim Client, plus all else)</b>	GG,AL	
147		3.3.4.1 REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
148		3.3.4.2 Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
149		3.3.4.3 <b>MILE 21: Jim_Client+ - Phase 4/4 of Ops Transfer done</b>	GG,AL	
150		3.3.5 <b>milestone: Operations Transfer nominally completed</b>	GG,AL	
151	✓	3.4 <b>VDT Version Migration</b>	GG	
152	✓	3.4.1 New VDT: VDT-oriented Testbed setup	GG	PM
153	✓	3.4.2 New VDT: VDT-oriented Testbed resetup	GG	PM
154	✓	3.4.3 New VDT: software adaptation and deployment	GG	PM
155	✓	3.4.5 <b>MILE 9: SamGrid migrated to new VDT version</b>	GG	
156	✓ 	3.5 <b>Operations Reduction Execution: "Road To Operations"</b>	GG	
157	✓ 	3.5.1 <b>Reinstall key machines with standard configuration</b>	GG	
158	✓ 	3.5.1.1 Reach agreement among groups involved (by Sep 14)	GG	GG,AL
159		3.5.1.2 <b>Reinstall Forwarding Nodes with standard configuration</b>	GG,AL	
160	✓ 	3.5.1.2.1 Define standard fwd node machine configuration	GG	PM
161		3.5.1.2.2 <b>Reinstall Forwarding Nodes: Oct 22- Nov 20</b>	GG	
162	✓ 	3.5.1.2.2.1 Admins procure HW parts for all fwd nodes	GG	FEF
163	✓	3.5.1.2.2.2 <b>Reinstall Forwarding Node 1 (w/Sam Station)</b>	GG	
164	✓	3.5.1.2.2.2.1 Admins configure candidate fwd node (by Oct 22)	GG	FEF
165	✓	3.5.1.2.2.2.2 Developers install and test candidate fwd node (by Fri Oct 26)	GG	PM
166	✓	3.5.1.2.2.2.4 Adjust current software to use standard location as default	GG	PM
167	✓ 	3.5.1.2.2.2.3 Adjust current installation instructions	GG	PM

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168		3.5.1.2.2.2.5	REX ops re-installs on candidate machine	AL	SS
169		3.5.1.2.2.2.7	Admins and REX ops configure production fwd node	AL	FEF,SS
170		3.5.1.2.2.2.6	Switch candidate machine and d0srv047 (fwd + station) (Nov 6)	AL	SS
171		3.5.1.2.2.2.9	Diagnose, resolve, document 32-bit/64-bit compatibility issues	GG,AL	PM,SS
172		3.5.1.2.2.2.8	MILE 11: Forwarding Node w/Sam Station Reinstalled with std config	GG	
173		3.5.1.2.2.3	INPUT: Test of fail-over in production environment	GG	PM
174		<b>3.5.1.2.2.4</b>	<b>Reinstall Forwarding Node 2</b>	AL	
175		3.5.1.2.2.4.1	REX ops drains and take production fwd node offline	AL	SS
176		3.5.1.2.2.4.2	REX ops installs software on production fwd node (d0srv15)	AL	SS
177		3.5.1.2.2.4.3	Put fwd node back into system d0srv15 (Nov 13)	AL	SS
178		3.5.1.2.2.4.4	Admins and REX ops configure production fwd node	AL	FEF,SS
179		3.5.1.2.2.4.5	milestone: verified fwd node configuration and procedure	AL	
180		<b>3.5.1.2.2.5</b>	<b>Reinstall Forwarding Node 3</b>	AL	
181		3.5.1.2.2.5.1	REX ops drains and take production fwd node offline	AL	SS
182		3.5.1.2.2.5.2	REX ops installs software on production fwd node (d0srv66)	AL	SS
183		3.5.1.2.2.5.3	Switch candidate machine and d0srv66 (1 fwd node downtime) (Nov 15)	AL	SS
184		3.5.1.2.2.5.4	Admins and REX ops configure production fwd node	AL	FEF,SS
185		<b>3.5.1.2.2.7</b>	MILE 15: OSG Fwd nodes reinstalled with std config	GG	
186		3.5.1.2.2.8	Organize activities to prepare for LCG fwd node migration	GG	GG
187		<b>3.5.1.2.2.10</b>	<b>Reinstall LCG/UK Forwarding Node</b>	AL	
188		3.5.1.2.2.10.5	Site ops drains and take production fwd node offline	AL	LCG
189		3.5.1.2.2.10.6	REX ops installs software on LCG/UK fwd node	AL	SS
190		3.5.1.2.2.10.7	REX ops puts fwd node back into system	AL	SS
191		3.5.1.2.2.10.8	Site and REX ops configure production fwd node	AL	SS,LCG
192		3.5.1.2.2.10.9	milestone: LCG/UK Forwarding Node reinstalled with std config	AL	
193		<b>3.5.1.2.2.11</b>	<b>Reinstall LCG/Germany Forwarding Node</b>	AL	
194		3.5.1.2.2.11.15	Site ops drains and take production fwd node offline	AL	LCG
195		3.5.1.2.2.11.16	REX ops installs software on LCG/Germany fwd node	AL	SS
196		3.5.1.2.2.11.17	REX ops puts fwd node back into system	AL	SS
197		3.5.1.2.2.11.18	Site and REX ops configure production fwd node	AL	SS,LCG
198		3.5.1.2.2.11.19	milestone: LCG/Germany Forwarding Node reinstalled with std config	AL	
199		3.5.1.2.3	milestone: Forwarding nodes reinstalled with standard configuration	GG	
200		<b>3.5.1.3</b>	<b>Reinstall Queueing Node with standard configuration</b>	GG,AL	
201		3.5.1.3.1	Define standard queueing node machine configuration	GG	PM
202		<b>3.5.1.3.2</b>	<b>Reinstall Queueing Node: Oct 19 - Nov 6</b>	GG	
203		3.5.1.3.2.1	Admins procure HW parts for samgrid-like node (job queuing, broker, web server)	GG	FEF
204		3.5.1.3.2.2	Admins configure test instance of samgrid-like node	GG	FGS
205		3.5.1.3.2.3	Developers install and test samgrid-like node (by Wed Nov 7)	GG	PM
206		3.5.1.3.2.4	Adjust current installation instructions	GG	PM
207		3.5.1.3.2.5	Adjust current software to use standard location as default	GG	PM
208		3.5.1.3.2.6	Admins configure production samgrid-like node	AL	FGS
209		3.5.1.3.2.7	REX ops installs queueing software on production samgrid-like node	AL	SS

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210	✓	3.5.1.3.2.9	Dev ops installs web server software on production samgrid-like node	AL	PM
211	✓	3.5.1.3.2.8	<b>REX ops integrates new samgrid-like node into production system</b>	AL	
212	✓	3.5.1.3.2.8.1	Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)	AL	SS
213	✓	3.5.1.3.3	MILE 12: Queuing node reinstalled with std config	GG	
214	✓	3.5.1.3.4	Diagnose job history incompatibility issues and create migration plan	GG	PM,GG
215	✓	3.5.1.3.11	Prepare for migration from mixed old/new samgrid nodes to new node use only	GG	PM,GG
216		3.5.1.3.5	Migrate MC Prod from mixed old/new samgrid nodes to new node use only	GG	JS
217		3.5.1.3.6	Migrate Prod from mixed old/new samgrid nodes to new node use only	GG	MD
218		3.5.1.3.8	<b>milestone: Migration to exclusive use of new samgrid node completed</b>	GG	
219		3.5.1.4	<b>Reinstall Durable Locations with standard configuration</b>	GG,AL	
220	🟡	3.5.1.4.1	Define standard durable location machine configuration	GG	PM
221		3.5.1.4.2	<b>Reinstall Durable Locations: Nov 9 - Nov 28</b>	GG	
222	🟡	3.5.1.4.2.1	Admins procure HW parts(?) for test instance of durable location node	GG	FEF
223	🟡	3.5.1.4.2.2	Admins configure test instance of durable location node (by Fri Nov 9)	GG	FEF
224		3.5.1.4.2.3	Developers install and test durable location node (by Fri Nov 23)	GG	PM
225	🟡	3.5.1.4.2.4	Adjust current installation instructions	GG	PM
226		3.5.1.4.2.5	Adjust current software to use standard location as default	GG	PM
227		3.5.1.4.2.6	REX ops re-installs on test machine	AL	SS
228		3.5.1.4.2.7	<b>REX ops reconfigures existing durable locations</b>	AL	
229	🔴🟡	3.5.1.4.2.7.1	Stop tmbs upload to d0srv063; REX ops reinstalls durable location	AL	SS
230	🔴🟡	3.5.1.4.2.7.2	Stop tmbs upload to d0srv065; REX ops reinstalls durable location	AL	SS
231		3.5.1.4.3	MILE 17: Durable Locations reinstalled with std config	GG	
232		3.5.1.5	<b>milestone: Standard configuration defined and key machines reinstalled</b>	GG	
233		3.5.8	<b>Create SamGrid Test Stand</b>		
234		3.5.8.1	REX ops installs software on test fwd node (d0srv15)	AL	SS
235	🟡	3.5.8.2	Admins fix disk on test queue node (old samgrid)	AL	SS
236	🟡	3.5.8.5	REX ops installs software on test queue node (old samgrid)	AL	SS
237		3.5.8.3	Trial use of SamGrid test stand	AL	SS
238		3.5.8.4	<b>milestone: SamGrid test stand completed</b>	AL	
239		3.5.2	<b>Automate routine maintenance operations</b>	GG	
240		3.5.2.1	<b>Automatic clean up of job queues</b>	GG	
241	🟡	3.5.2.1.1	Manually clean up SamGrid job queue (samgrid.fnal.gov)	GG	AL
242		3.5.2.1.3	Install auto-clean up for SamGrid job queue	GG	PM
243		3.5.2.1.4	Test/observe auto-clean up for SamGrid job queue	GG	PM,AL
244	🟡	3.5.2.1.6	Manually clean up OSG job queue (fwd nodes)	GG	AL
245		3.5.2.1.5	Install auto-clean up of OSG job queue	GG	PM
246		3.5.2.1.2	Test/observe auto-clean up fo OSG job queue	GG	PM,AL
247		3.5.2.2	<b>Automatic clean-up of disk areas</b>	GG	
248	🟡	3.5.2.2.1	Resolve: Globus gatekeeper does not properly cleanup gass caches	GG	PM
249		3.5.2.2.2	Periodically clean up gram log files at fwd nodes and exec sites	GG	PM
250		3.5.2.2.3	Clean up sandboxes and jim_tmp areas at fwd node	GG	PM
251		3.5.2.2.4	Clean up non-rotated log files (eg. Tomcat)	GG	PM

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252		3.5.2.3	Automation of all gridmap file management (including condor_schedd)	GG	PM
253		3.5.2.4	Simplify maintenance of automatic clean-up scripts for durable locations	GG	AB2
254		3.5.2.5	Add the deployment of scripts to installation instructions	GG	PM
255		3.5.2.6	Assess automation of maintenance operations	GG	AL
256		3.5.2.7	MILE 23: Routine maintenance operations automated	GG	
257		3.5.3	<b>Improve robustness of key services</b>	GG	
258		3.5.3.1	<b>Improve condor status querying performance: install, evaluate condor_quill</b>	GG	
259		3.5.3.1.1	Determine goal level, requirements	GG	PM
260		3.5.3.1.2	Determine existing querying performance	GG	PM
261		3.5.3.1.3	<b>DECISION: test condor_quill or mitigate or live with current</b>	GG	
262		3.5.3.1.4	Evaluate condor_quill, if determined to be necessary	GG	PM
263		3.5.3.2	Improve algorithm for selection of OSG resources	GG	PM
264		3.5.3.3	<b>milestone: Robustness in key services improved</b>	GG	
265		3.5.4	<b>Automatic handling of job log files</b>	GG	
266		3.5.4.1	Reduce size of output sandbox	GG	AB2
267		3.5.4.2	Make output sandbox space management more robust	GG	AB2
268		3.5.4.3	Transfer output sandbox selection logic to Runjob	GG	PL
269		3.5.4.4	Specify tools for accessing old logfiles	GG	MD
270		3.5.4.5	Provide tools (to MD) for accessing old logfiles	GG	AB2
271		3.5.5	<b>Automate system health alarms</b>	GG	
272		3.5.5.1	<b>NGOP central service</b>	GG	
273		3.5.5.1.1	Define hardware	GG	AB2
274		3.5.5.1.2	Install basic NGOP server	GG	AB2
275		3.5.5.1.3	Develop generic NGOP rules: alarm severity, paging/email notifications	AL	AL
276		3.5.5.1.4	Deploy and test best schema as depicted	GG	AB2
277		3.5.5.1.5	Understand SAM-Grid representation requirements: Dev part	AL	AB2
278		3.5.5.1.6	Understand SAM-Grid representation requirements: Ops part	AL	RH
279		3.5.5.1.7	Automated administration of NGOP schema and config	AL	RH
280		3.5.5.1.8	<b>milestone: NGOP central service prepared</b>	GG	
281		3.5.5.2	<b>Samgrid_mon</b>	GG	
282		3.5.5.2.1	Develop persistent environment for repetitive task execution	GG	AB2
283		3.5.5.2.2	Develop converter between SamGrid config and next-gen cron	GG	AB2
284		3.5.5.2.4	Store duplicate configuration of fwd node	GG	AB2
285		3.5.5.2.5	Accept existing configuration of fwd node	GG	AB2
286		3.5.5.2.6	Dispatch list of monitoring agents periodically, collect statuses	GG	AB2
287		3.5.5.2.7	Create distributable UPD package	GG	AB2
288		3.5.5.2.3	Generate NGOP agents from set of monitoring scripts and config	GG	AB2
289		3.5.5.2.8	<b>milestone: Samgrid_mon developed</b>	GG	
290		3.5.5.3	<b>Develop monitoring scripts</b>	GG	
291		3.5.5.3.1	Develop generic scripts for Gridftp and Fcp monitoring	GG	AB2
292		3.5.5.3.3	Data Nodes: Stager, Durable location, caches, Gridftp, Fcp	GG	AB2
293		3.5.5.3.2	Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component	GG	AB2

ID		WBS	Task Name	Contact	Resource Initials	
294		3.5.5.3.4	milestone: Monitoring scripts developed	GG		
295		3.5.5.4	milestone: System Health Alarm System nominally functional	GG		
296		3.5.5.5	Assess automation of alarming systems	GG	AB2	
297		3.5.5.6	Integration deployment and testing	GG	AB2	
298	✓	3.5.5.7	Documentation Initiation	GG	AB2	
299		3.5.5.9	Documentation Completion	GG	AB2	
300		3.5.5.8	MILE 19: System health alarms via NGOP automated	GG		
301	✉	3.5.6	<b>Improve system testing infrastructure</b>	GG		
302	✓	3.5.6.1	<b>Simplify running test jobs</b>	GG		
303	✓	3.5.6.1.1	Create test parameters for all job types	GG	AB2	
304	✓	3.5.6.1.2	Create and distribute JDL templates with test parameters	GG	AB2	
305	✓	3.5.6.1.3	Write testing instructions	GG	AB2	
306	✓	3.5.6.1.4	milestone: Running test jobs simplified per request	GG		
307		3.5.6.2	<b>Automatic submission of test jobs</b>	GG		
308		3.5.6.2.1	Develop automatic job management framework	GG	AB2,REX	
309		3.5.6.2.2	Automatic analysis of test results	GG	AB2,REX	
310		3.5.6.2.3	Integrate with alarming system	GG	AB2,REX	
311		3.5.6.2.4	milestone: Automatic submission of test jobs completed			
312		3.5.7	milestone: End of the Road to Operations	GG		
313		3.6	<b>Operations Reduction/Transfer: Close-out</b>	GG,AL		
314		3.6.1	Evaluate operations load on dev and ops groups post-transition	GG,AL		
315		3.6.2	Evaluate operations processes post-transition	GG,AL		
316		3.6.3	milestone: Operations Reduction and Transfer closed out	GG,AL		
317	✓	3.7	<b>Other Operations-related Fixes and Upgrades</b>	GG		
318	✓	3.7.1	Clarify D0 certificate approval process, personnel	GG	GG	
319		3.8	MILE 27: Operations Reduction and Transfer completed	GG,AL		
320	✉	4	<b>D0 Primary Production on Fermigrid</b>	MD		
321	✓	4.1	<b>Initial Commissioning</b>	MD		
322	✓	4.1.1	INPUT: Attempt to run D0 Primary Production on FermiGrid	MD	MD	
323	✓	4.1.2	OSG/Fermigrid Resource Selection Meeting	MD	MD	
324	✓✉	4.1.3	Config D0Production role: Fermigrid, GUMS, CAB, PBS, etc.	ST,FEF	MD	
325	✓	4.1.4	Run D0 Primary Prod via D0Production role	MD	MD	
326	✓	4.1.5	MILE 1: D0 Primary Production Runnable on Fermigrid	MD		
327	✓	4.2	D0PPF Commissioning Evaluation Meeting	RDK		
328		4.3	<b>Stable Operations</b>	MD		
329	✓	4.3.1	<b>Commissioning Follow-up</b>	MD		
330	✓✉	4.3.1.1	Fix d0srv065 storage issues	MD	MD	
331	✓	4.3.1.2	Run D0 Primary Prod to verify storage fix	MD	MD	
332	✓	4.3.1.3	Scale-up D0 Primary Prod to 200 nodes	MD	MD	
333	✓	4.3.1.4	milestone: D0PPF Stable Ops: Commissioning follow-up completed	MD	MD	
334		4.3.2	<b>Management Processes and Documentation</b>	MD		
335	✓	4.3.2.1	Implement Change Management for feature requests using SAM IssueTracker	MD		

ID		WBS	Task Name	Contact	Resource Initials	
336	✓	4.3.2.2	Establish service level for stable operations and implications on system config		MD	GG,PM,JS
337	█	4.3.2.3	Grid Production System workflow/dataflow diagram		MD	EXT
338		4.3.2.4	Grid Production System info on diagram: node roles, software, maintainers		MD	EXT
339	█	4.3.2.5	Open Science Enclave baseline security plan - implications on SamGrid, CAB		MD	D,GG,FEF
340	█	4.3.2.6	Job State diagram with most common error state causes		MD	PM
341		4.3.2.7	milestone: D0PPF Stable Ops: Management Processes and Documentation done		MD	
342		4.3.3	<b>System Monitoring</b>		MD	
343	█	4.3.3.1	CAB web monitoring changes requested by MD,JS		MD	FEF
344	█	4.3.3.2	Improve job monitoring, include trend plots		MD	EXT
345		4.3.3.3	Augment Job States to be more meaningful to large customer		GG	PM
346		4.3.3.4	milestone: D0PPF Stable Ops: System Monitoring done		MD	
347		4.3.4	<b>Specific System Services Issues</b>		MD	
348	█	4.3.4.1	Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)		MD	MD
349		4.3.4.2	JIM production release consistent with d0runjob v7-7-3 and higher		MD	MD
350	█	4.3.4.3	Evaluate use of ReSS (more flexible than use of roles)		GG	GG
351		4.3.4.5	Adapt to use ReSS in D0GPCI		GG	GG
352		4.3.4.4	milestone: D0PPF Stable Ops: Specific System Services done		MD	
353		4.3.5	<b>General System Services Issues (Road to Operations)</b>		GG	
354		4.3.5.1	INPUT: (3.4.1) Standardize file system layout on SamGrid nodes		GG	
355		4.3.5.2	INPUT: (3.4.1) Get all nodes governing operation in a consistent, known state		GG	
356		4.3.5.3	INPUT: (3.4.2.3) Evaluate how to reduce bandwidth consumed by moving logs		GG	
357	✓	4.3.5.4	INPUT: (3.4.2.3.1) Make Custom output support smarter, use compression		GG	AB2
358		4.3.5.5	INPUT: (3.4.2.3.2) Migrate Custom output support from SAM wrapper to D0runjob		GG	
359	✓	4.3.5.6	INPUT: (3.4.2.3.3) Implement a logfile archive node		GG	
360		4.3.5.7	milestone: D0PPF Stable Ops: General System Services done		GG	
361		4.3.6	<b>Stable Operations Service Challenge</b>		MD	
362	█	4.3.6.1	Define conditions of challenge		MD	MD
363	█	4.3.6.2	Service Challenge execution		MD	MD
364		4.3.6.3	Service Challenge evaluation		MD	
365		4.3.6.4	milestone: Service Challenge completed		MD	
366		4.3.7	milestone: D0 Primary Production on Fermigrid meets stability criteria		MD	
367		4.4	DOPPF Operations Evaluation Meeting		RDK	
368		4.7	MILE 28: D0 Primary Production Stable on Fermigrid		MD	
369	█	5	<b>Extend Grid Production System Functionality</b>		GG	
370	✓	5.1	<b>Forwarding Node Behind Firewall</b>		GG	
371	✓	5.1.1	Forwarding Node Behind Firewall: Evaluate, determine best course of action		GG	AB2
372		5.2	<b>Minimal Resource Brokering</b>		GG	
373		5.2.1	Minimal Resource Brokering request: Evaluate, determine best course of action		GG	GG
374		5.3	MILE 16: Grid Production System functionality completed		GG	
375	█	6	<b>Preparation of D0 Apps for Long-term</b>		ASB	
376		6.1	<b>Skimming</b>		HG	
377	█	6.1.1	Productize Skimming		D0	D0

ID		WBS	Task Name	Contact	Resource Initials
378		6.2	<b>CAF Trees</b>		
379		6.2.1	Productize CAF Tree generation	D0	D0
380		6.3	<b>Raw2Sim</b>		
381		6.3.1	Productize Raw2Sim	D0	D0
382		6.4	<b>AADST</b>		
383		6.4.1	Productize AADST	D0	D0
384		6.4.3	Enable data migration to SAM storage	AL	AL
385		6.4.4	Track data migration to SAM storage	AL	AL
386		6.4.5	Perform data migration to SAM storage	AL	D0
387		6.5	<b>MILE 24: Preparation of D0 Apps for long-term</b>	ASB	
388		7	<b>Evaluation of D0 SamGrid Requests</b>	RDK	
389		7.1	<b>Reco</b>		
390		7.1.1	EVAL: Ability to merge more than 1 stream from Reco		
391		7.2	<b>MC Production</b>		
392		7.2.1	EVAL: Ability to run TrigSim in MC Production		
393		7.3	<b>Skimming</b>		
394		7.3.1	EVAL: Skimming in Production		
395		7.4	EVAL: Fixing		
396		7.5	<b>Raw2Sim</b>		
397		7.5.1	EVAL: Run raw2sim on minbias files		
398		7.6	<b>Reco-cert</b>		
399		7.6.1	EVAL: Merging of reco-cert files		
400		7.6.2	<b>Stand-alone production of reco-cert output on SamGrid</b>		
401		7.6.2.1	Develop WBS for implementing S/A Recocert on SamGrid	RDK	RDK
402		7.7	<b>CAF Trees</b>		
403		7.7.1	EVAL: CAF Trees from Production		
404		7.8	EVAL: MC CAF Trees		
405		7.9	EVAL: AADST		
406		7.10	EVAL: Grid Analysis		
407		7.12	<b>Evaluate remaining D0 SamGrid Requests</b>	RDK	RDK
408		7.12.2	Develop generic WBS for adapting D0 Apps to Grid Production	RDK	RDK
409		7.12.3	Create form to capture D0 App requirements, workflow, use patterns	RDK	RDK
410		7.12.4	Create maintainable list of known portability issues for D0 Apps on Grid	RDK	RDK
411		7.12.1	Write evaluation of requests based on generic WBS	RDK	RDK
412		7.12.5	D0 SamGrid Requests Evaluation: Review	RDK	
413		7.12.6	D0 SamGrid Requests Evaluation: Revision	RDK	RDK
414		7.12.7	D0 SamGrid Requests Evaluation: Approval	RDK	
415		7.11	<b>MILE 25: Evaluation of D0 SamGrid Requests done</b>	RDK	
416		8	<b>Project Management</b>	RDK	
417		8.1	INPUT: Draft Preliminary High-level WBS	RDK	RDK
418		8.2	<b>Initiative Coordination Meeting</b>	RDK	
419		8.2.1	Initiative Coordination Meeting 1	RDK	

ID		WBS	Task Name	Contact	Resource Initials
420		8.2.2	Initiative Coordination Meeting 2	RDK	
421		8.2.3	Initiative Coordination Meeting 3	RDK	
422		8.2.4	Initiative Coordination Meeting 4	RDK	
423		8.2.5	Initiative Coordination Meeting 5	RDK	
424		8.2.6	Initiative Coordination Meeting 6	RDK	
425		8.2.7	Initiative Coordination Meeting 7	RDK	
426		8.2.8	Initiative Coordination Meeting 8	RDK	
427		8.2.9	Initiative Coordination Meeting 9	RDK	
428		8.2.10	Initiative Coordination Meeting 10	RDK	
429		8.2.11	Initiative Coordination Meeting 11	RDK	
430		8.2.12	Initiative Coordination Meeting 12	RDK	
431		8.2.13	Initiative Coordination Meeting 13	RDK	
432		8.2.14	Initiative Coordination Meeting 14	RDK	
433		8.2.15	Initiative Coordination Meeting 15	RDK	
434		8.3	<b>Project Planning</b>	RDK	
435		8.3.1	WBS/Schedule v0.8 for 3/7 objectives	RDK	RDK
436		8.3.2	milestone: WBS/Schedule v0.8, begin weekly status'ing	RDK	
437		8.3.3	WBS/Schedule v0.9 for 5/7 objectives	RDK	RDK
438		8.3.4	milestone: Plan v0.9 sufficient to drive near-term work	RDK	
439		8.3.5	Draft WBS/Schedule v1.0 for 7/7 objectives	RDK	RDK,GG
440		8.3.6	Big Baseline Planning Meeting	RDK	
441		8.3.7	Create Baseline Project Plan v1.0	RDK	RDK
442		8.3.8	MILE 6: Baseline Project Plan v1.0 released	RDK	
443		8.3.9	Baseline Project Plan: Executive Presentations	RDK	RDK
444		8.3.12	Baseline Project Plan v1.0: Integrate feed-back	RDK	RDK
445		8.3.13	Baseline Plan Project v1.1: Drop tasks pushed out past end of Initiative	RDK	RDK
446		8.3.14	MILE 8: Project Plan v1.1	RDK	
447		8.4	<b>Project Administration</b>	RDK	
448		8.4.1	Planning Phase (Level of Effort = 5%)	RDK	RDK
449		8.4.2	Execution Phase (Level of Effort = 15%)	RDK	RDK
450		8.5	<b>Project Close-out</b>	RDK	
451		8.5.1	Project Close-out Meeting	RDK	RDK
452		8.5.2	Project Close-out Report	RDK	RDK
453		8.5.3	Project Close-out Report Approval: ABS, CD	RDK	RDK,ASB
454		8.5.4	Archive project artifacts	RDK	RDK
455		8.5.5	milestone: Initiative Closed-out	RDK	
456		9	MILE 29: D0 GPC Initiative completed	ASB	











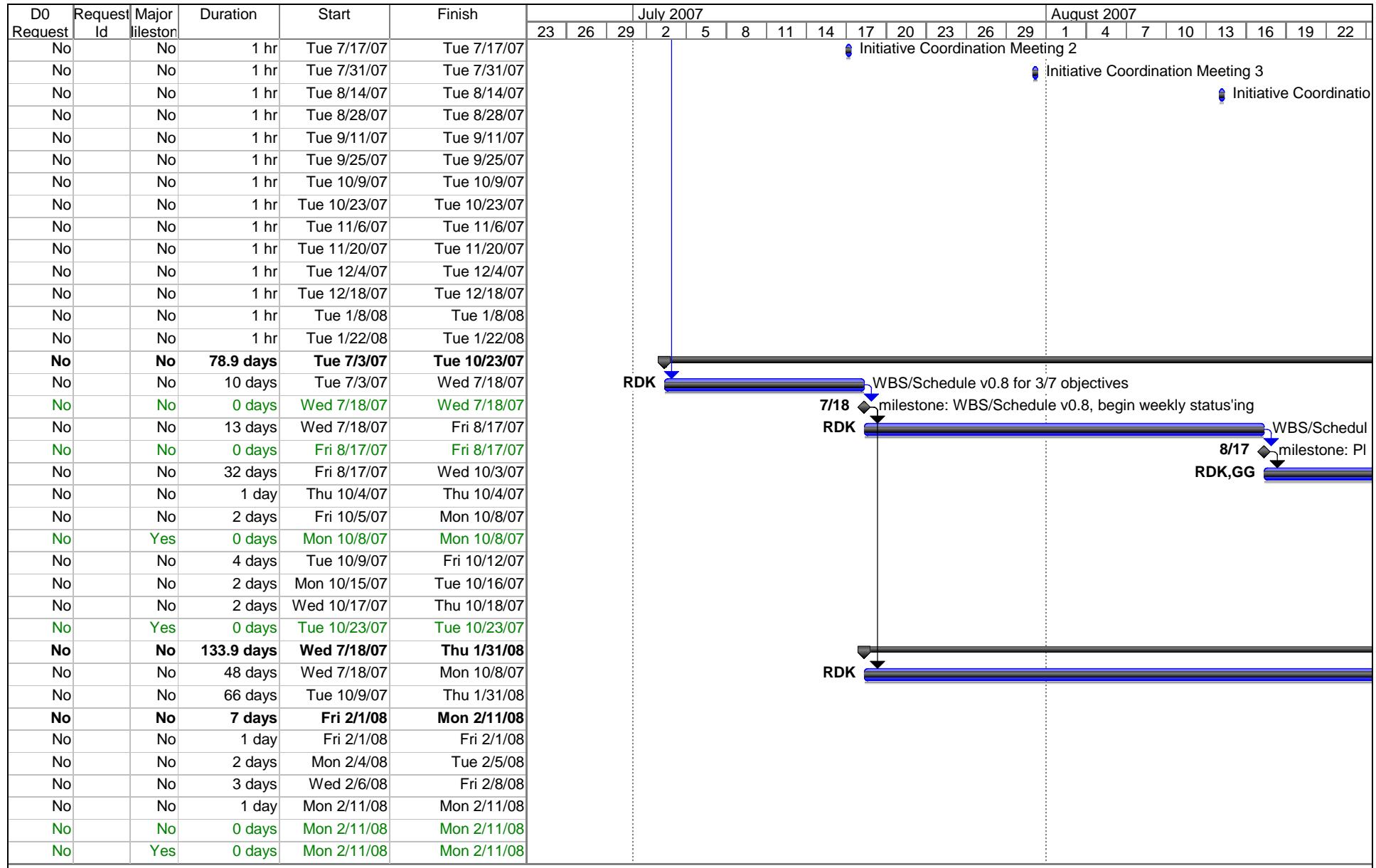


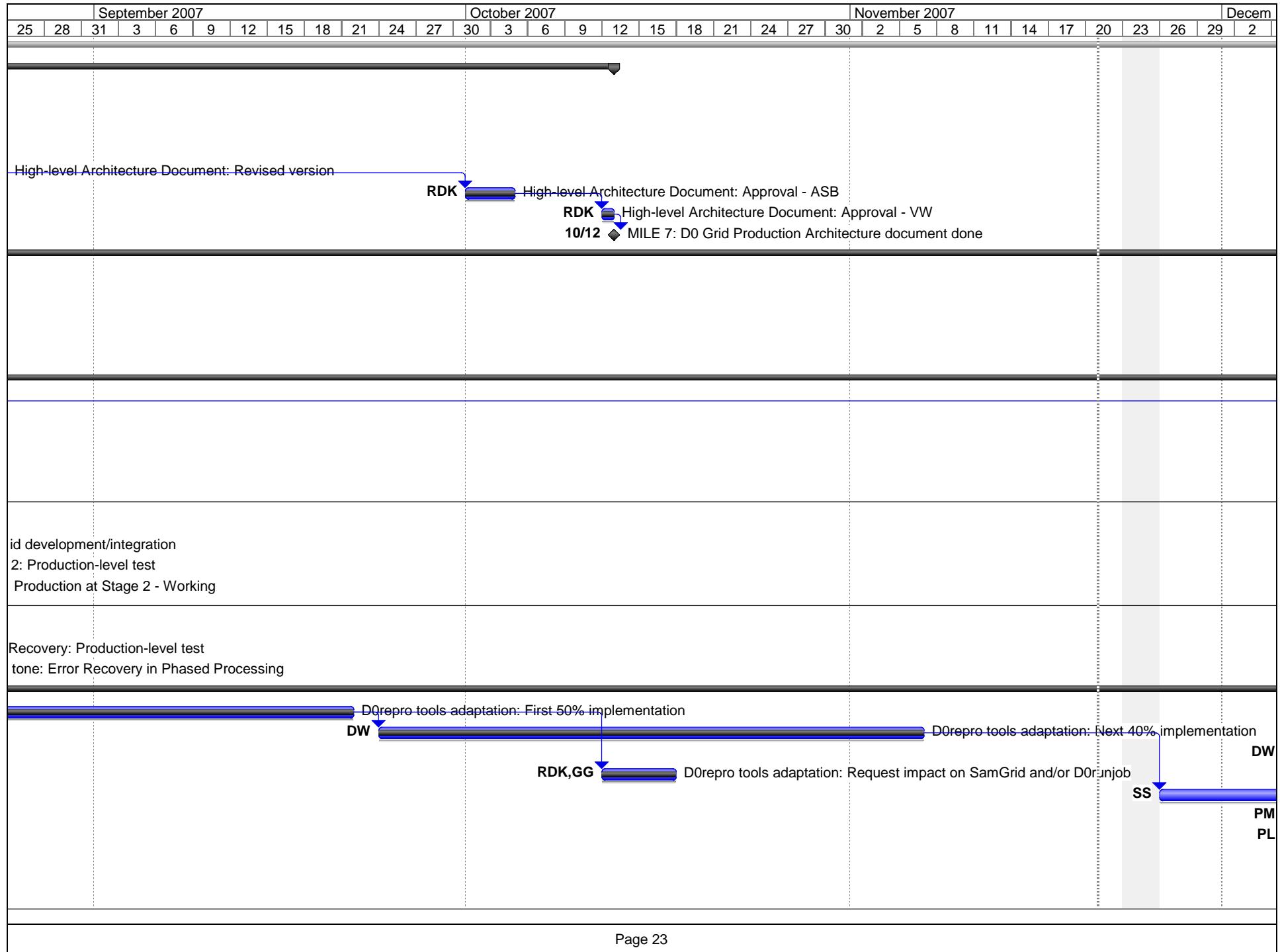


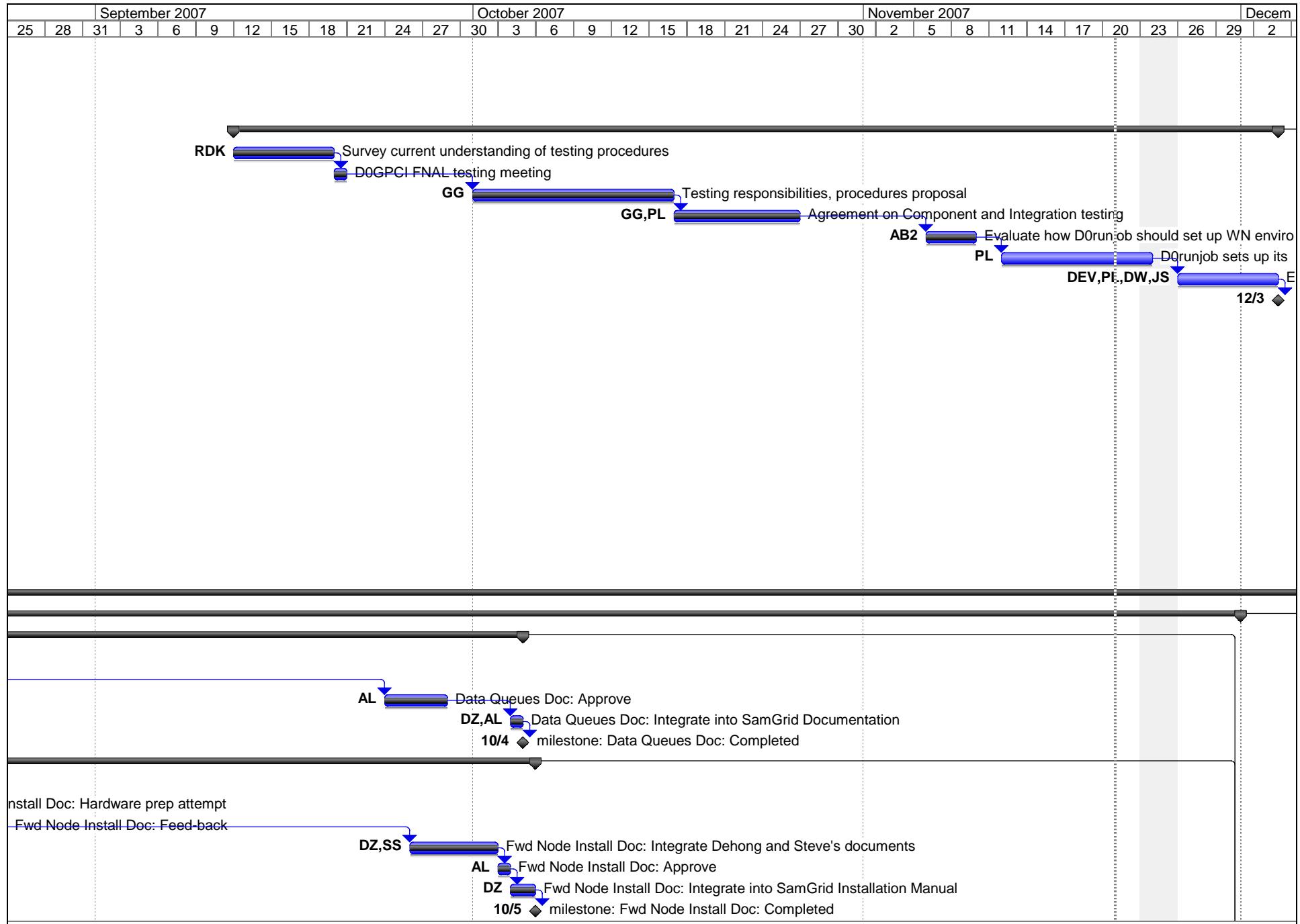


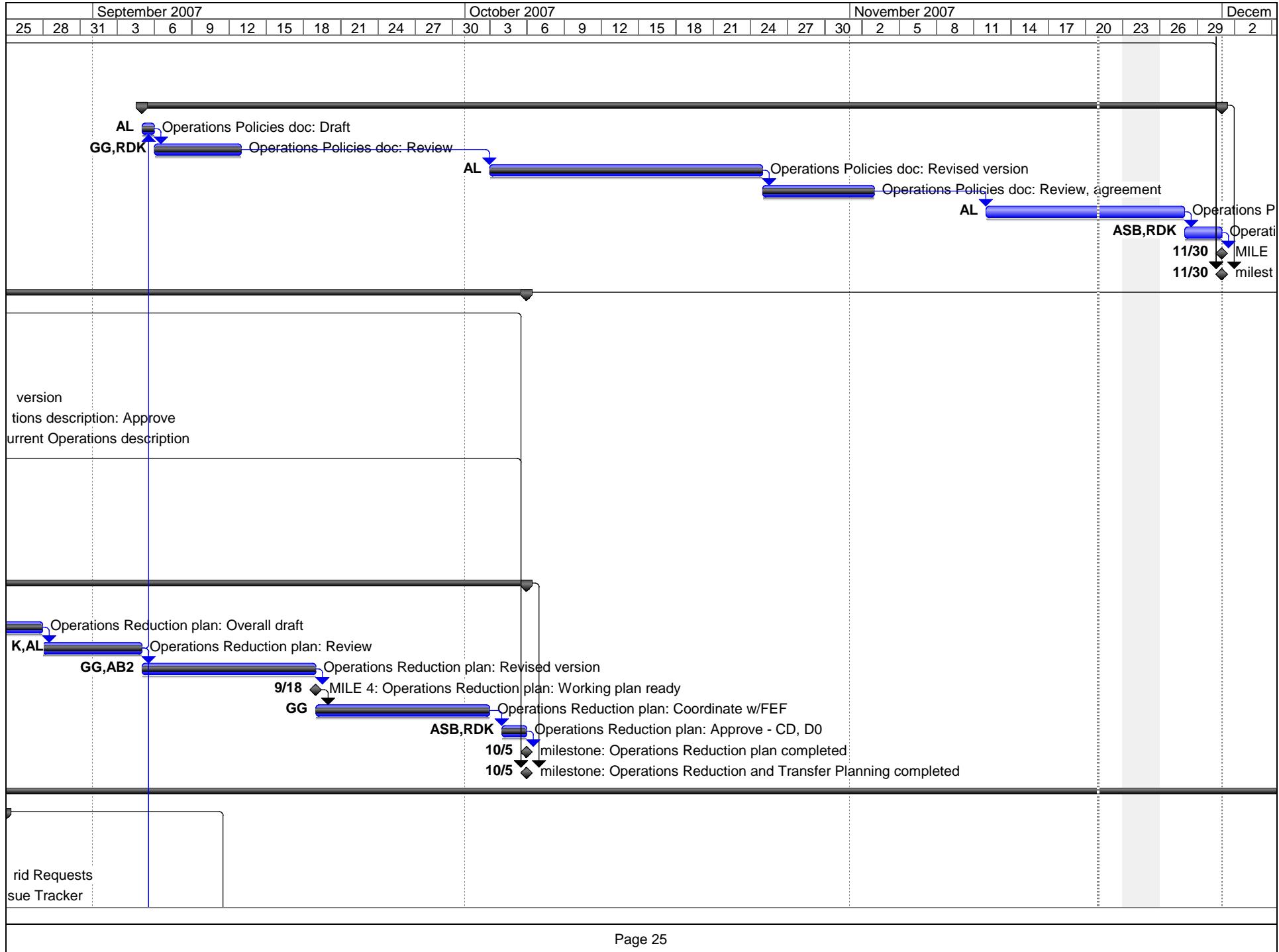


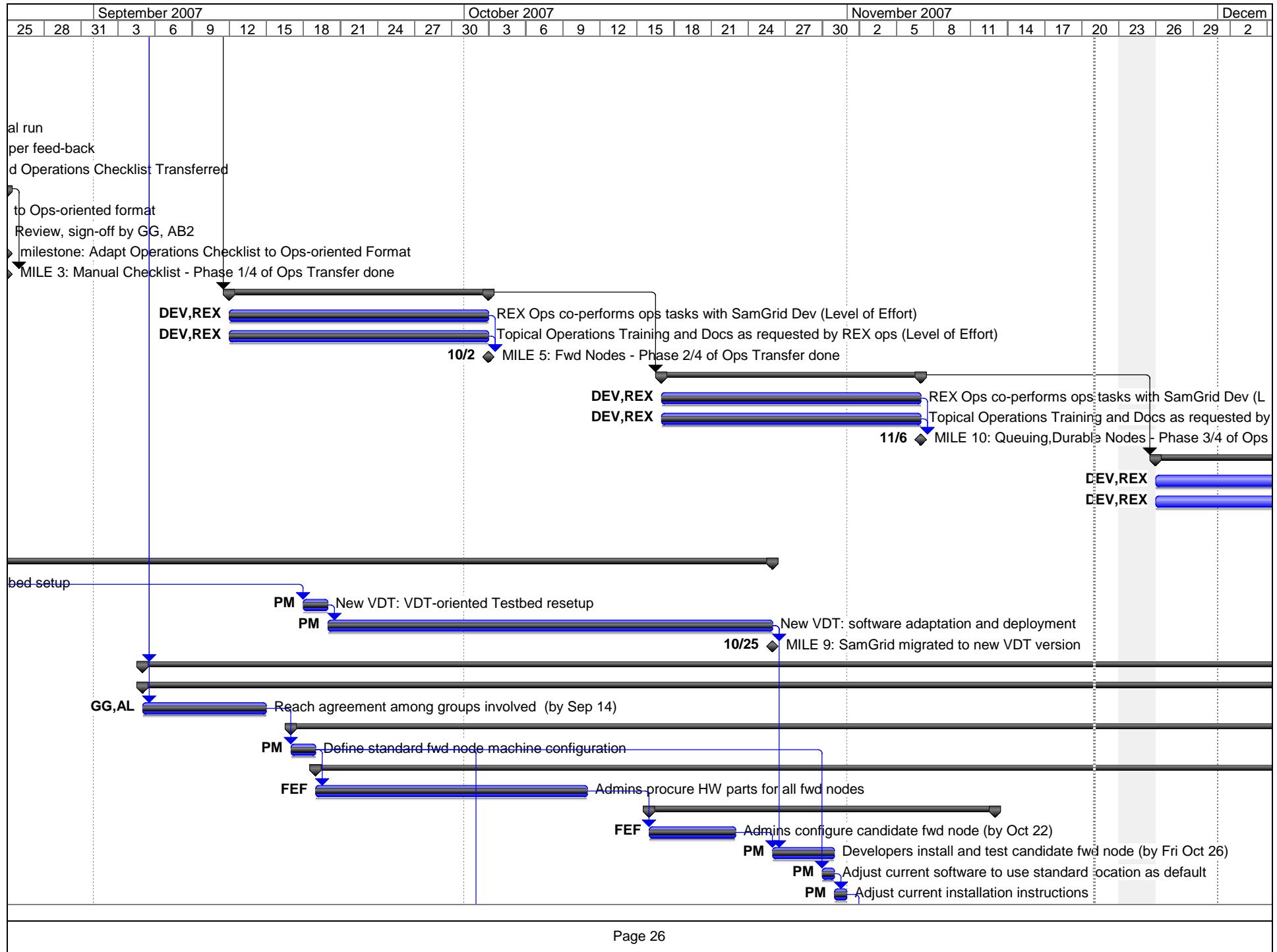


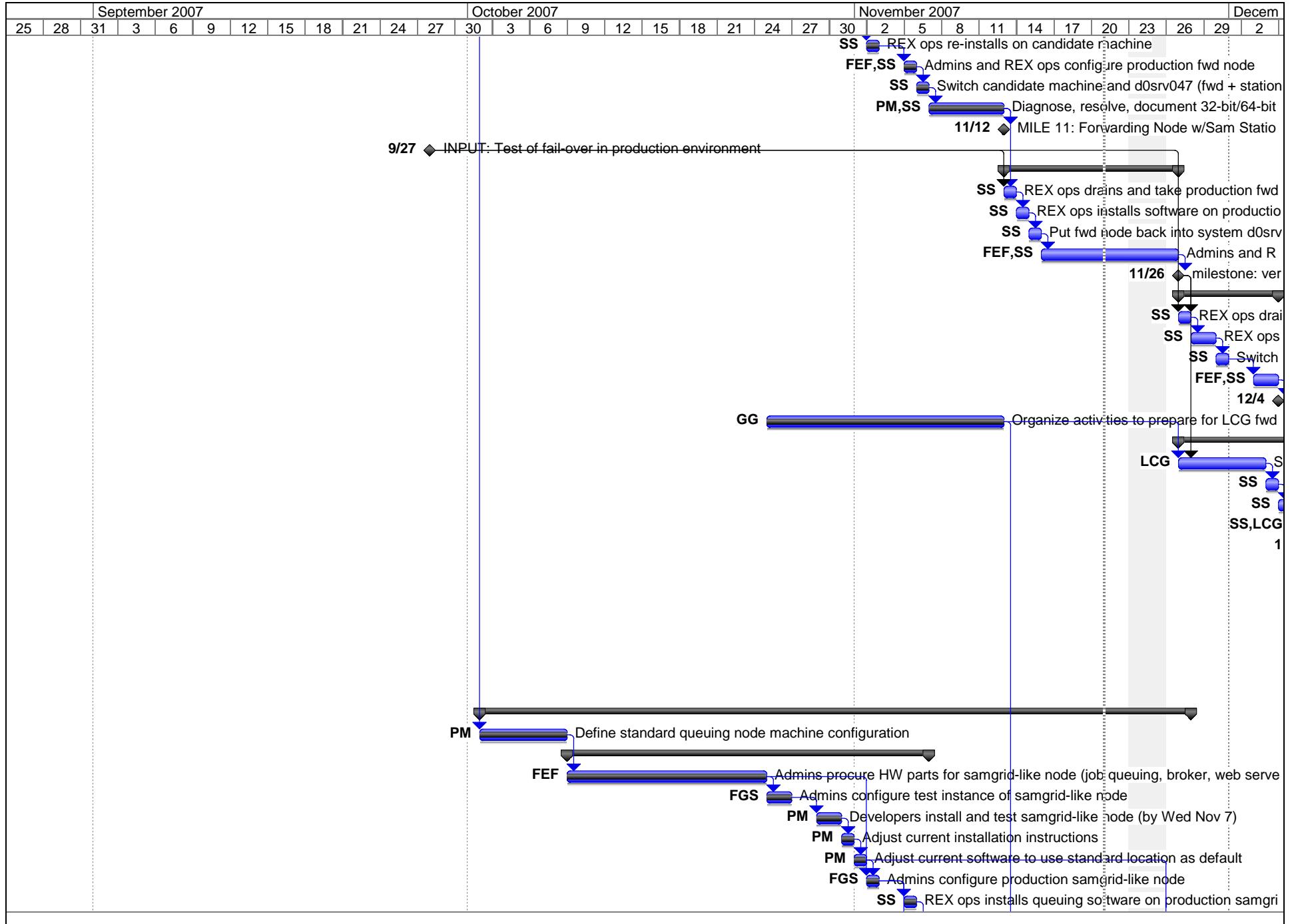


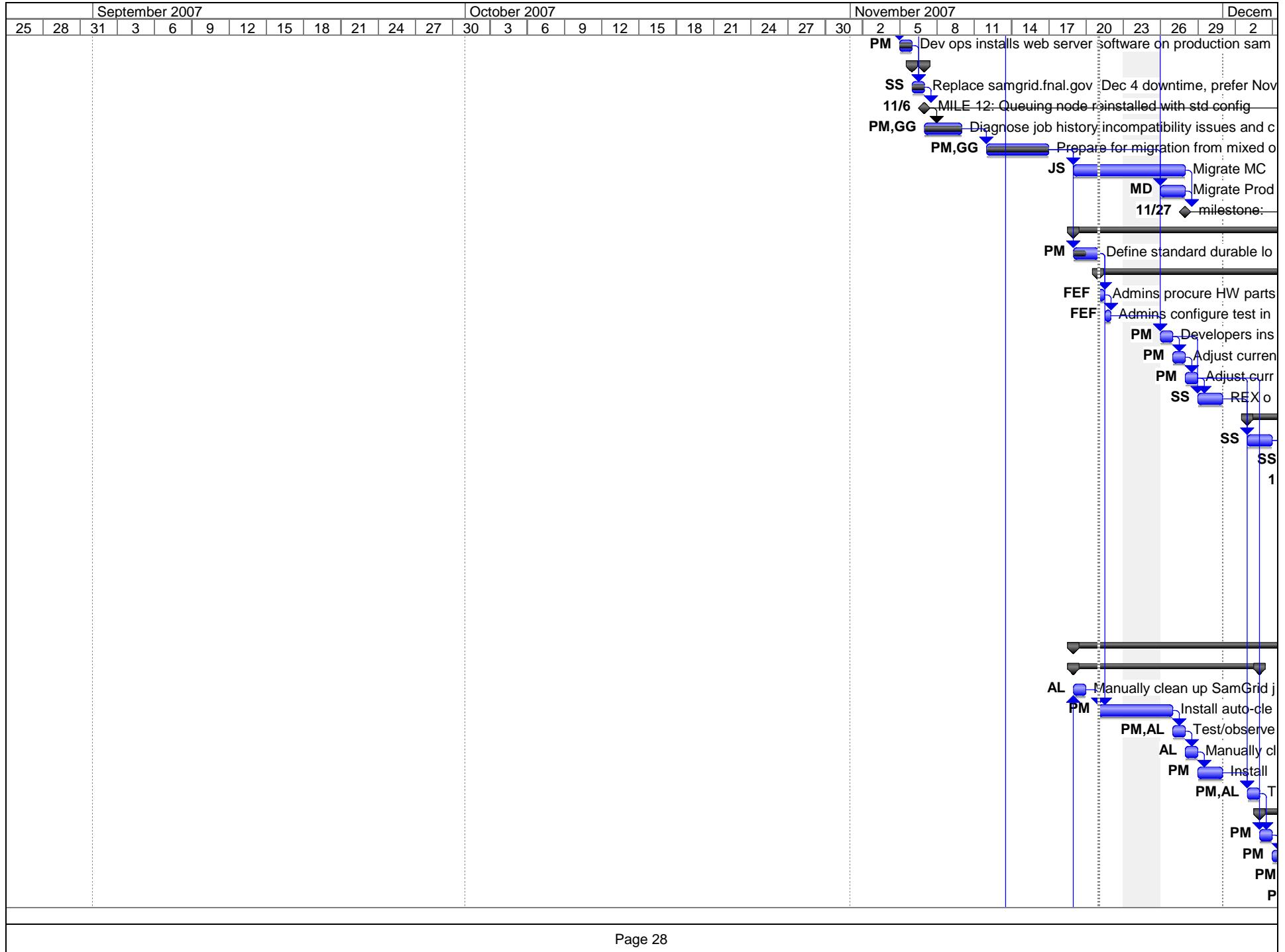


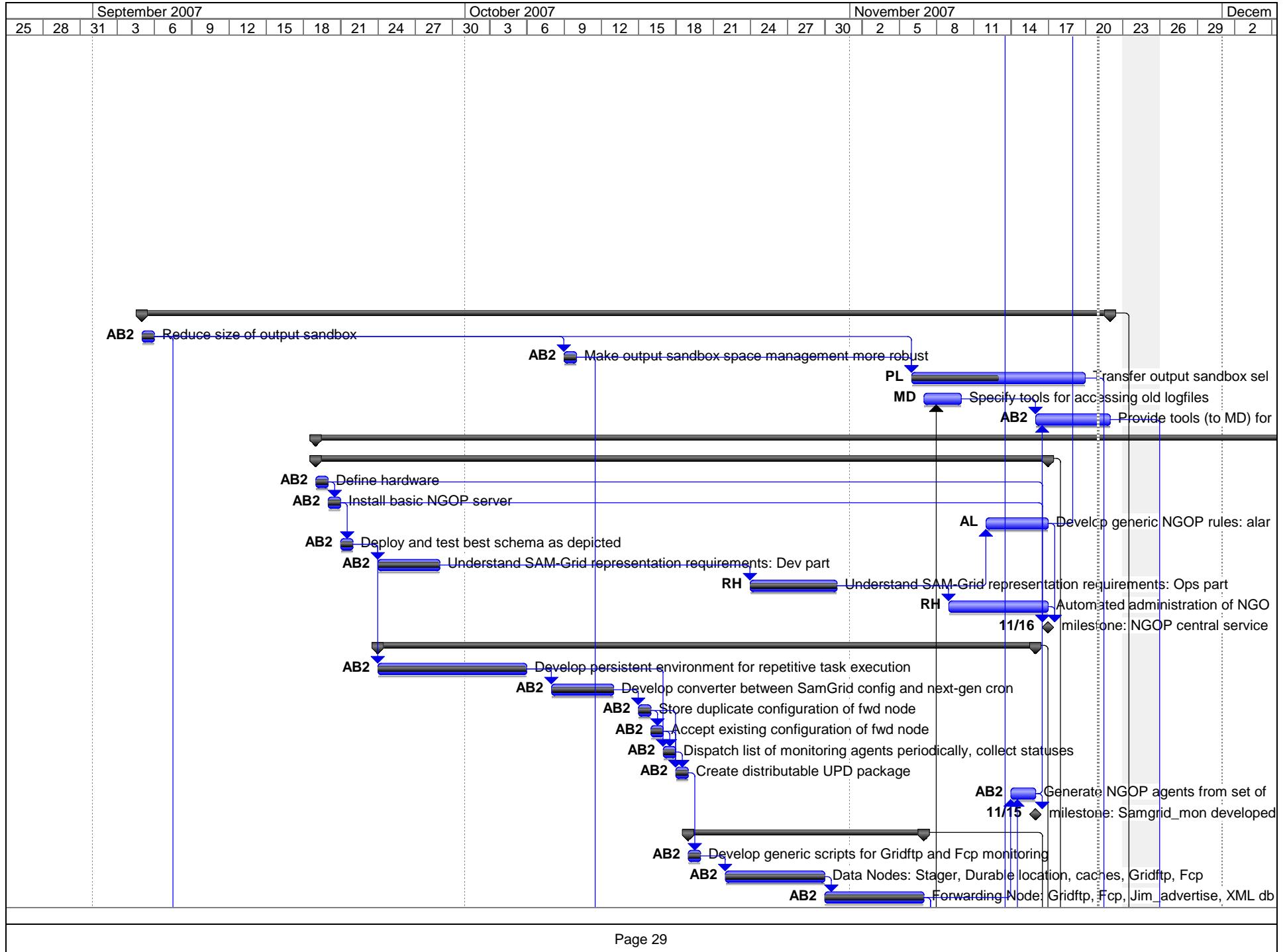


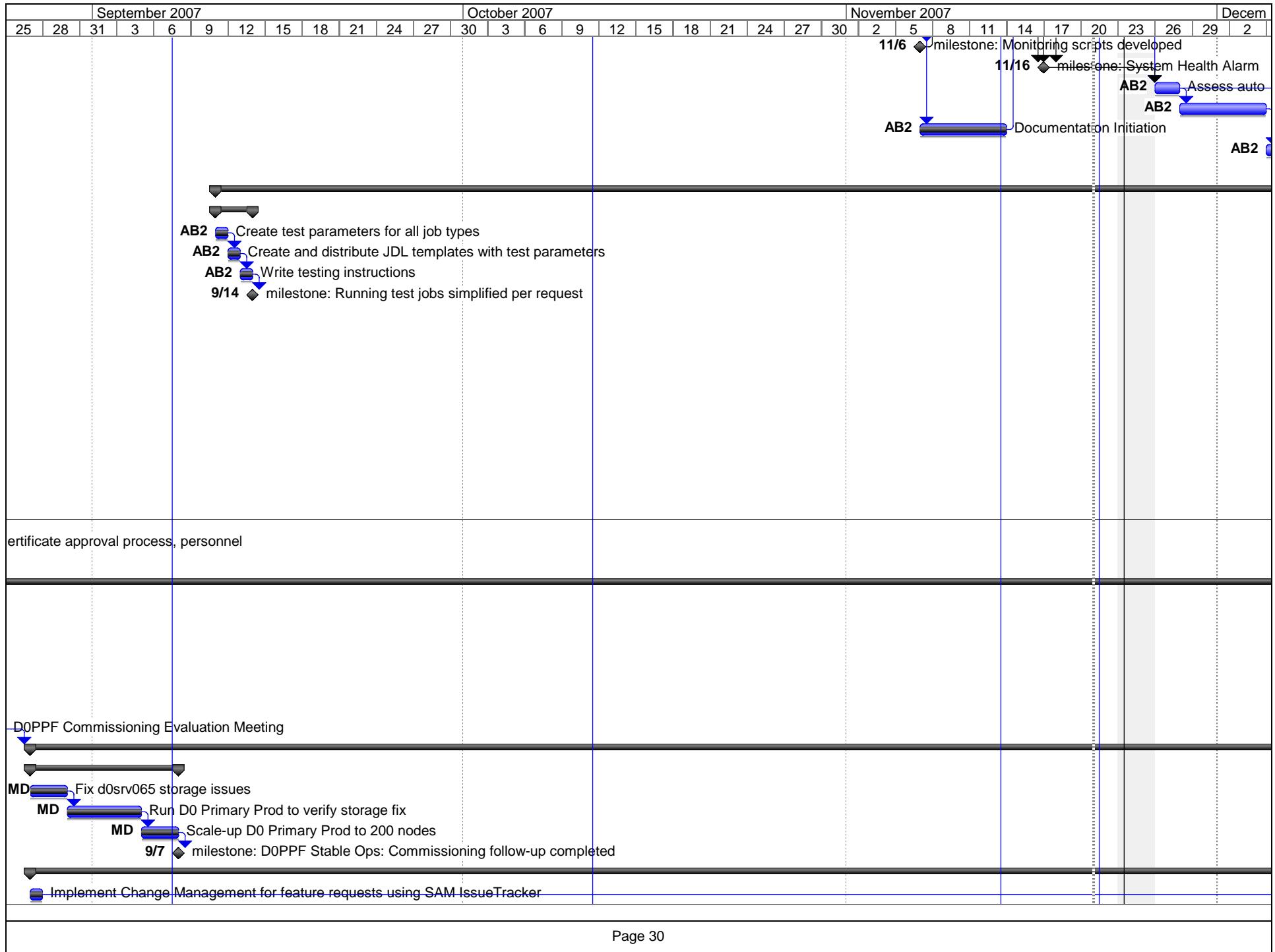


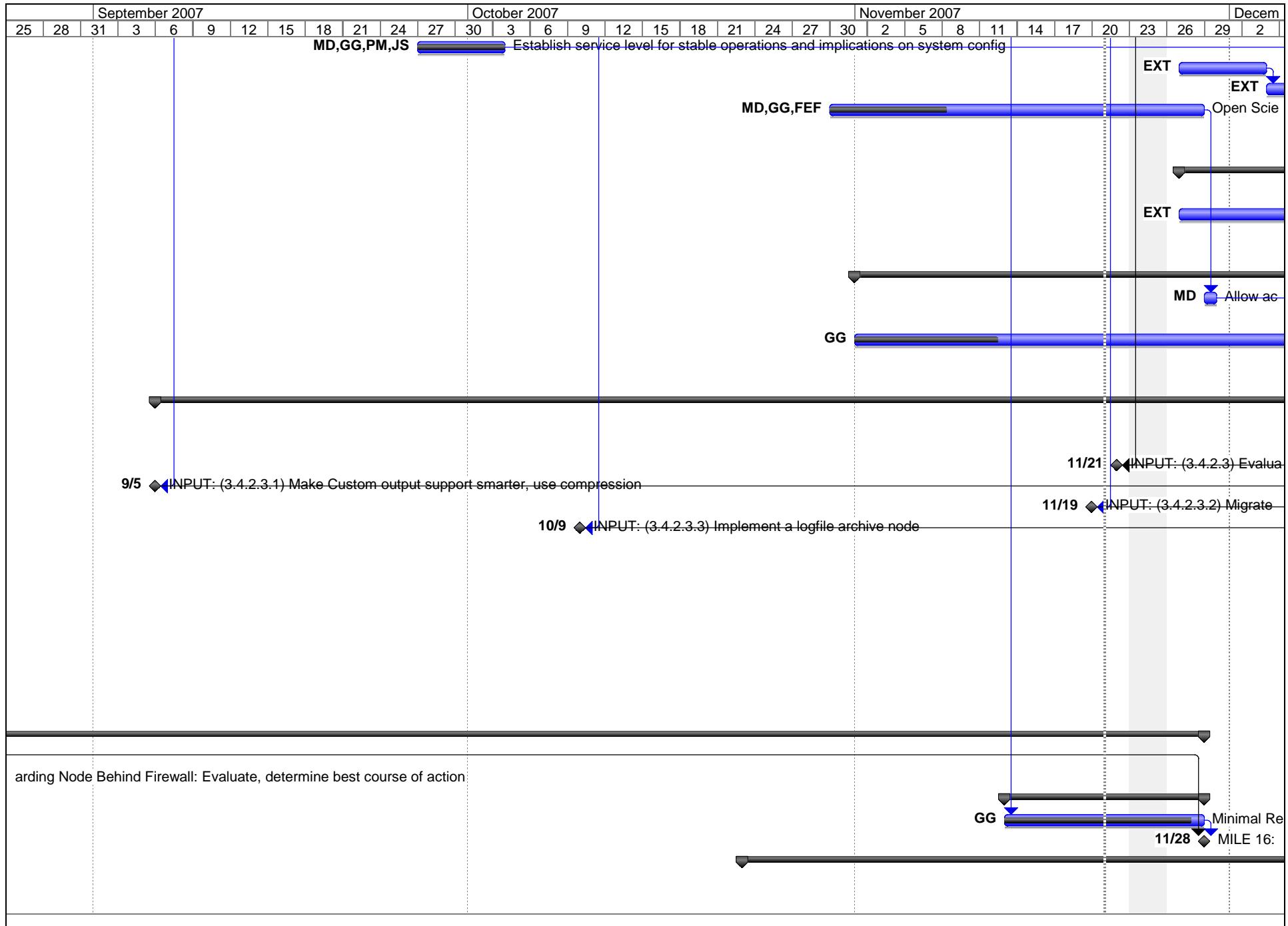


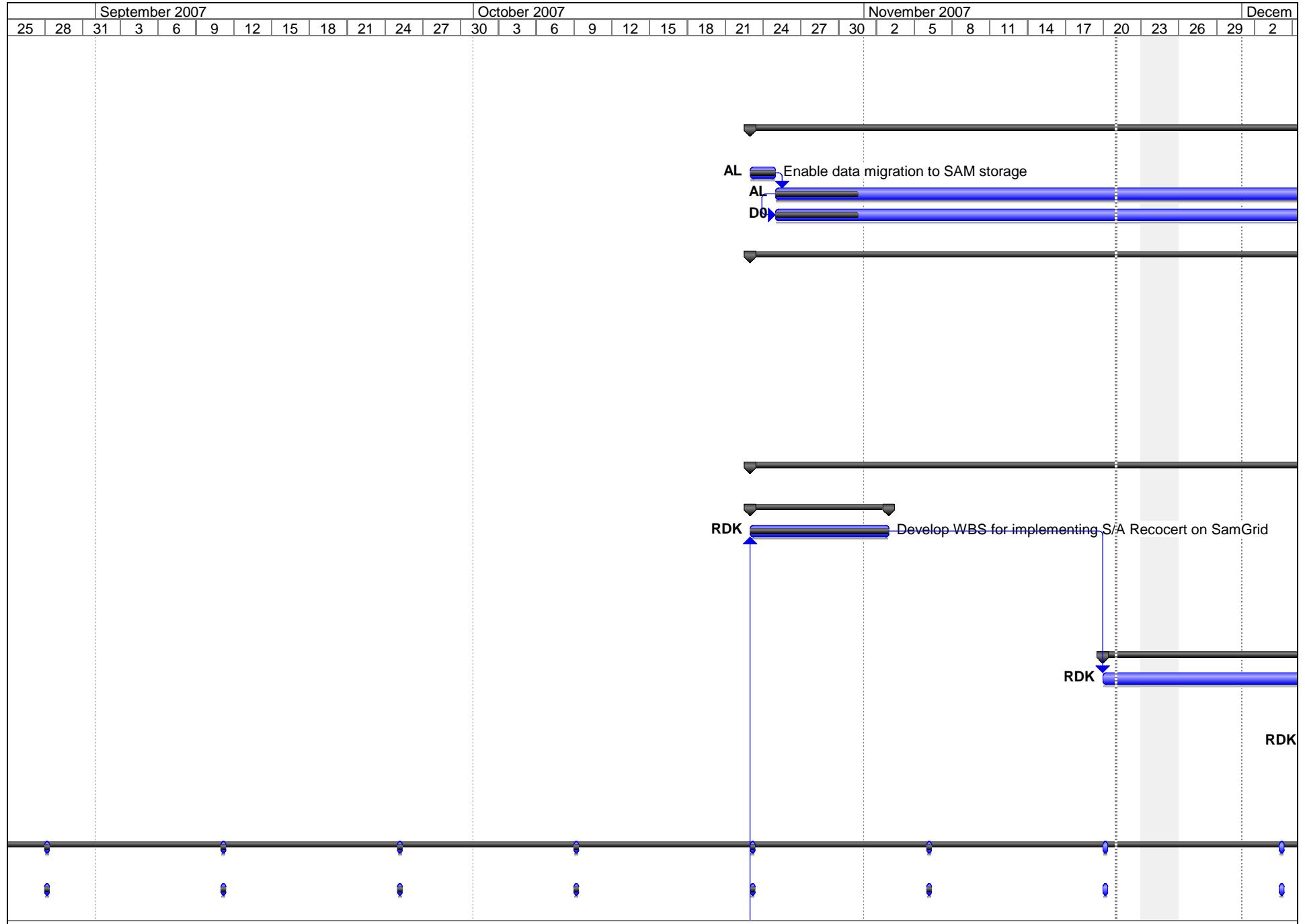


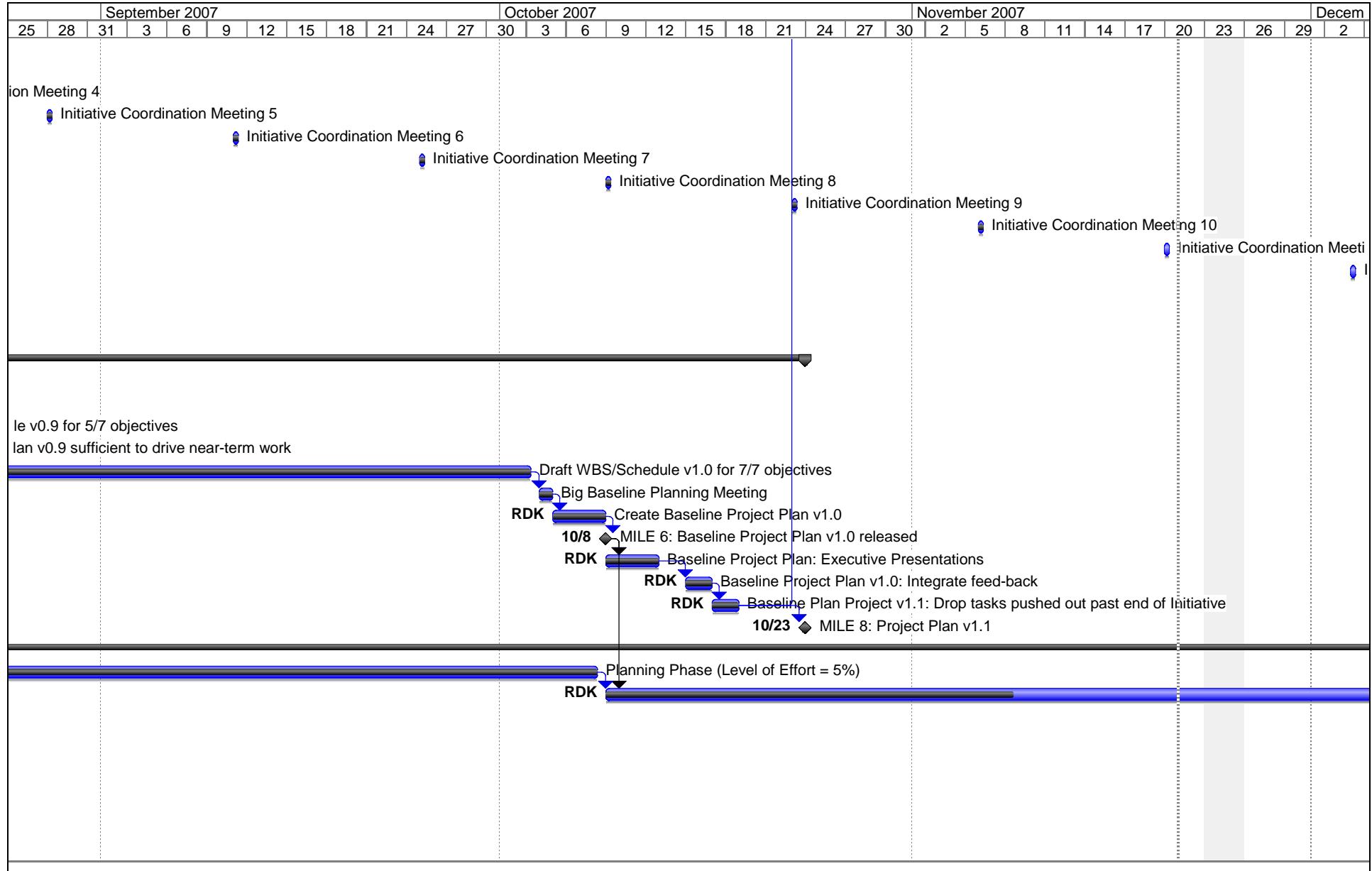


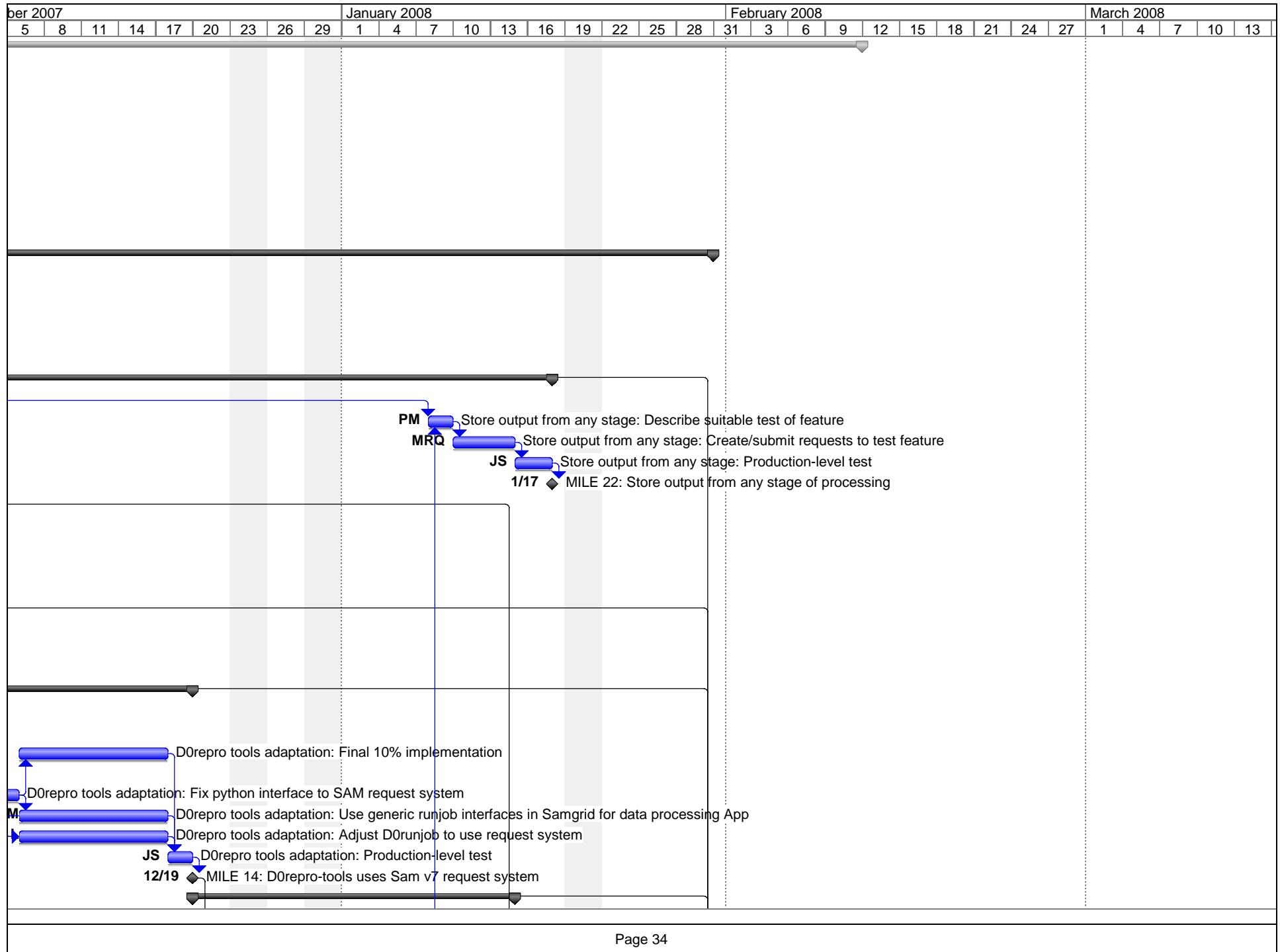








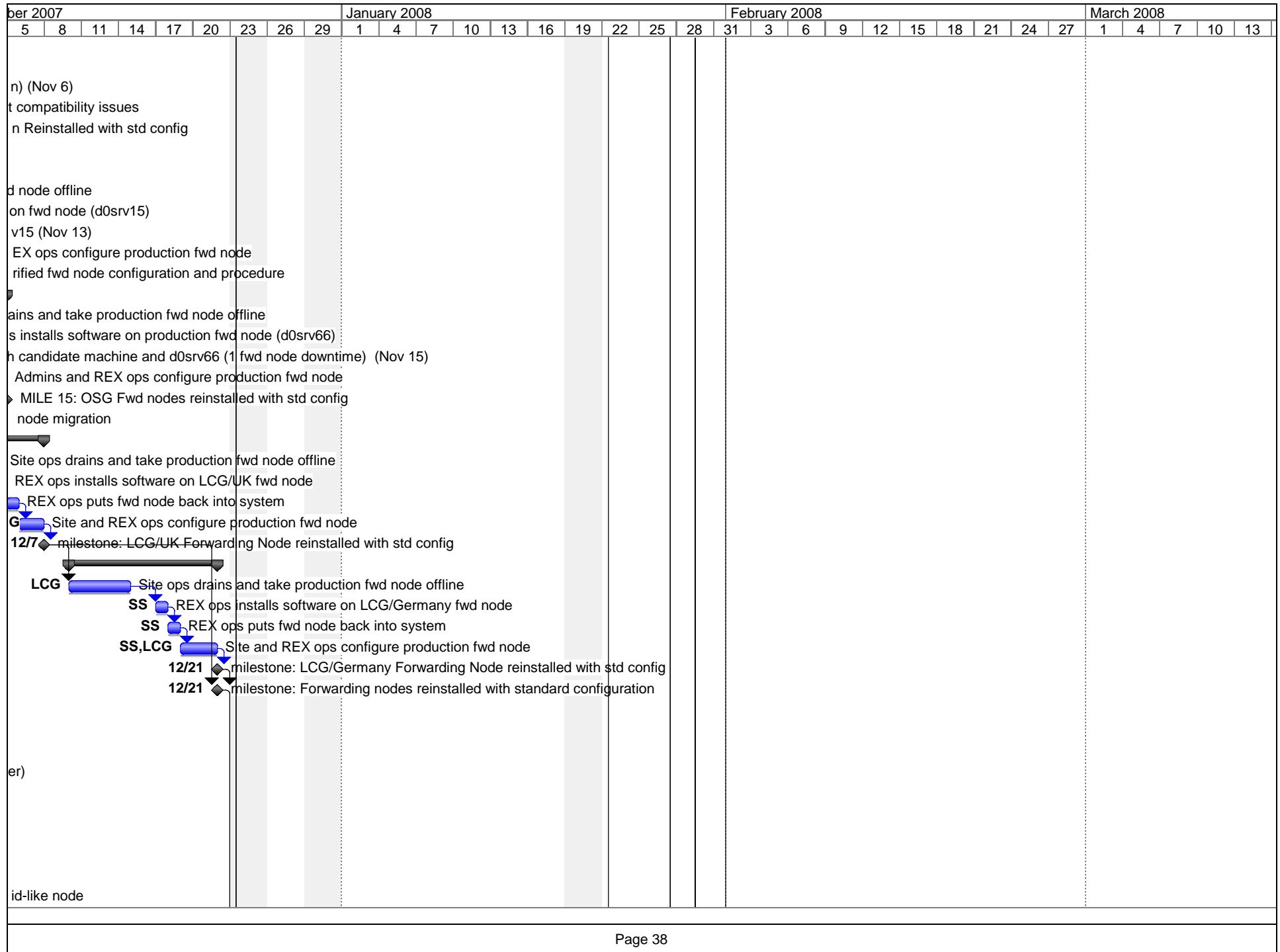


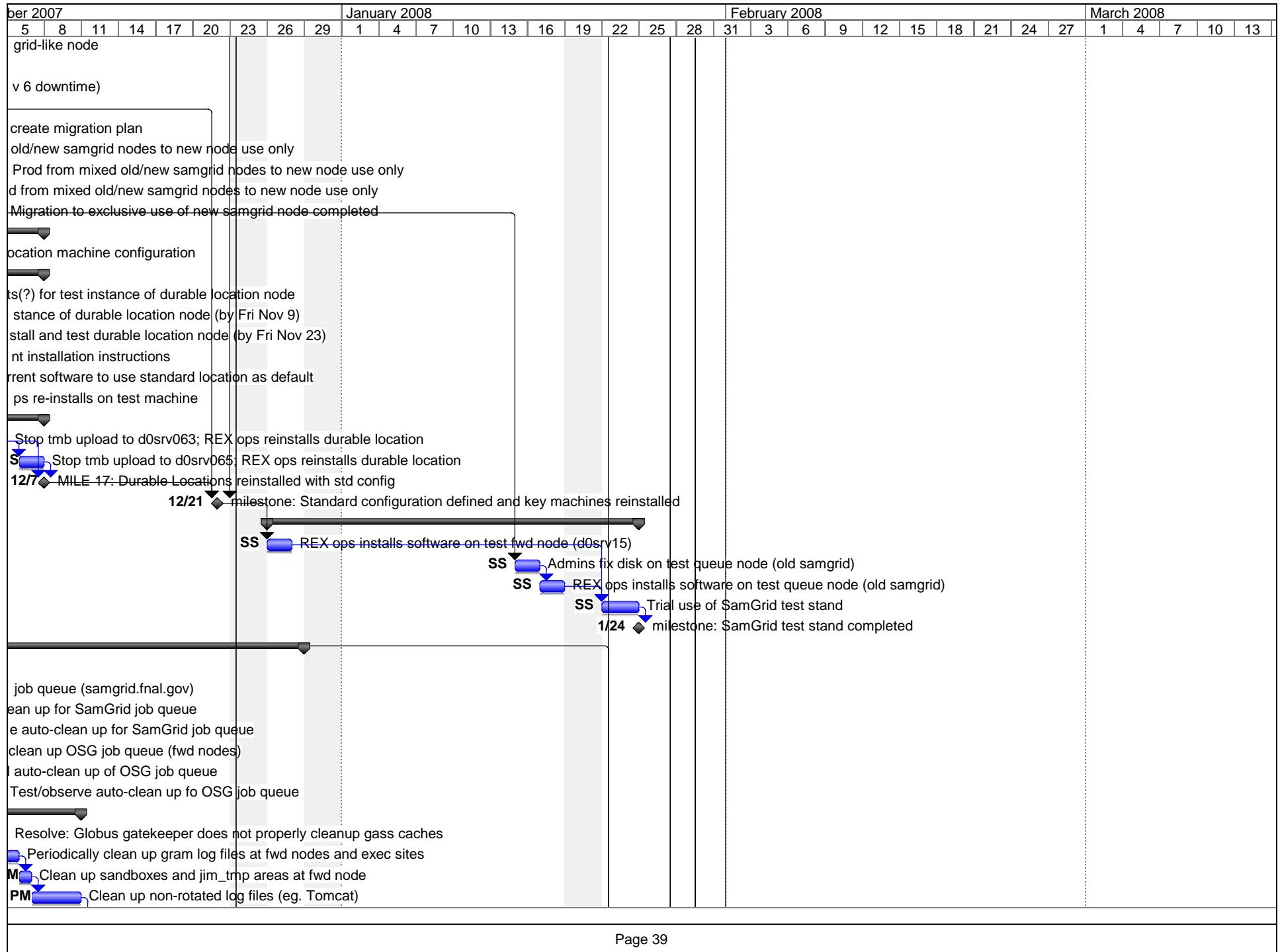


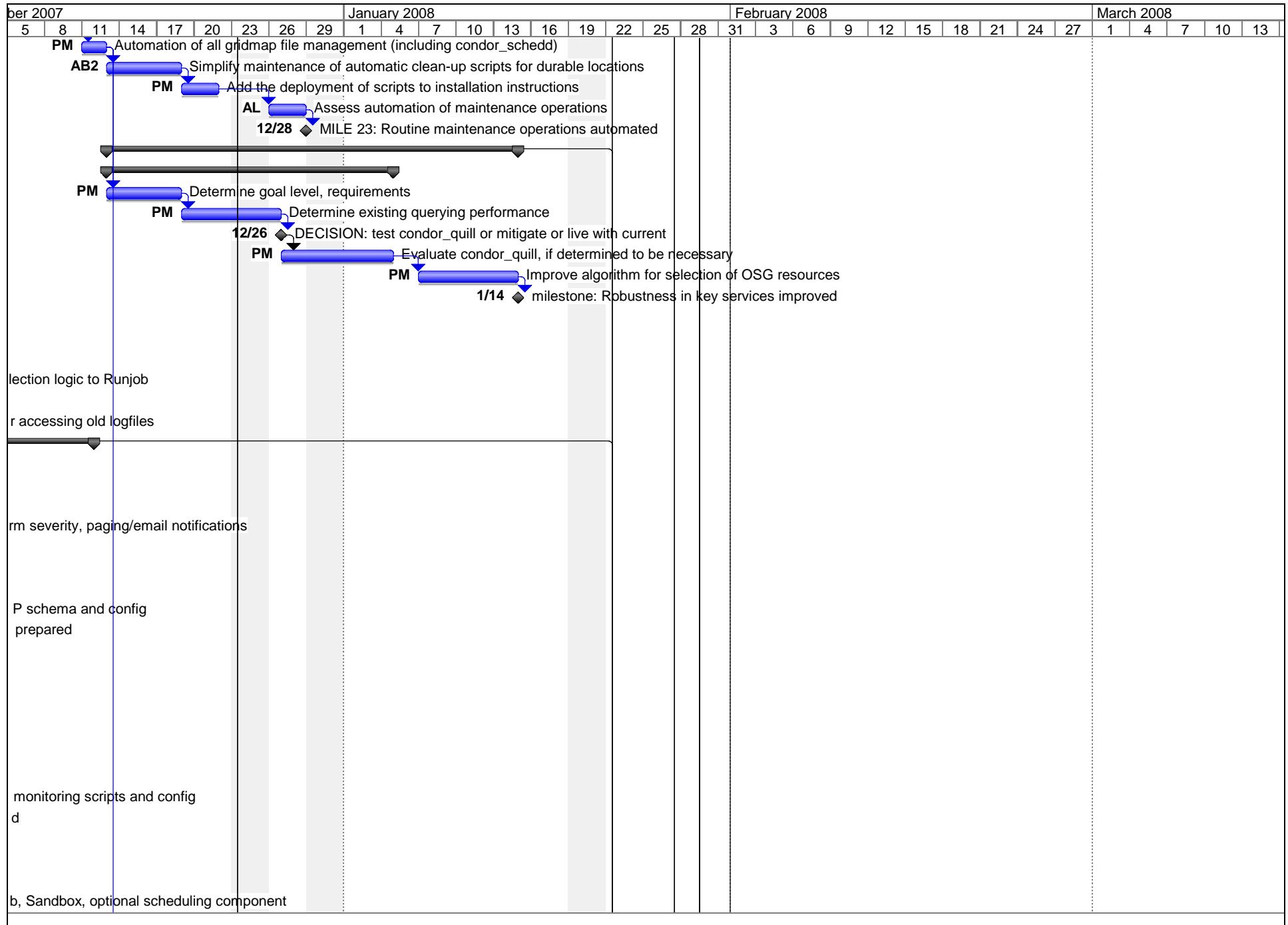


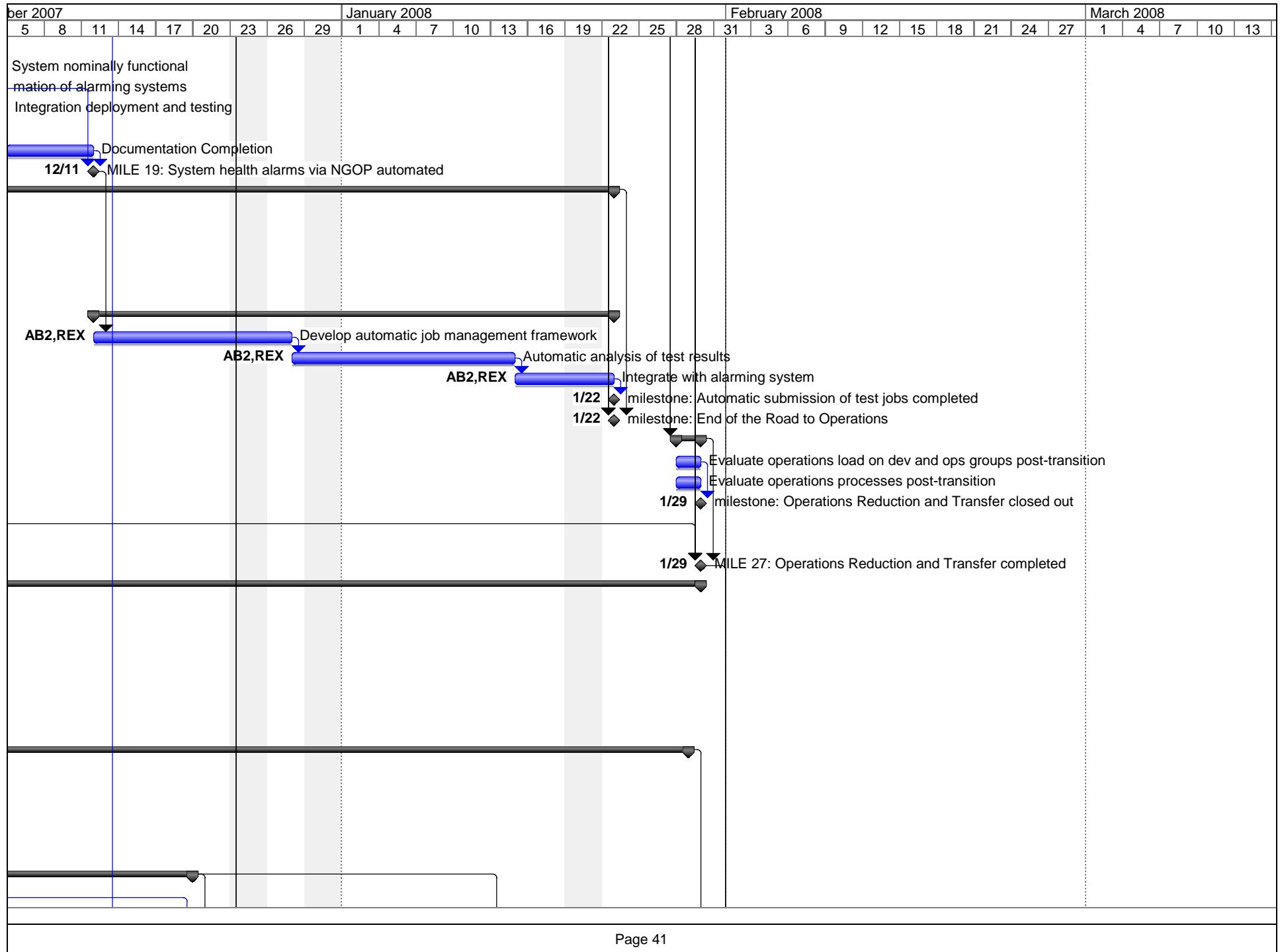
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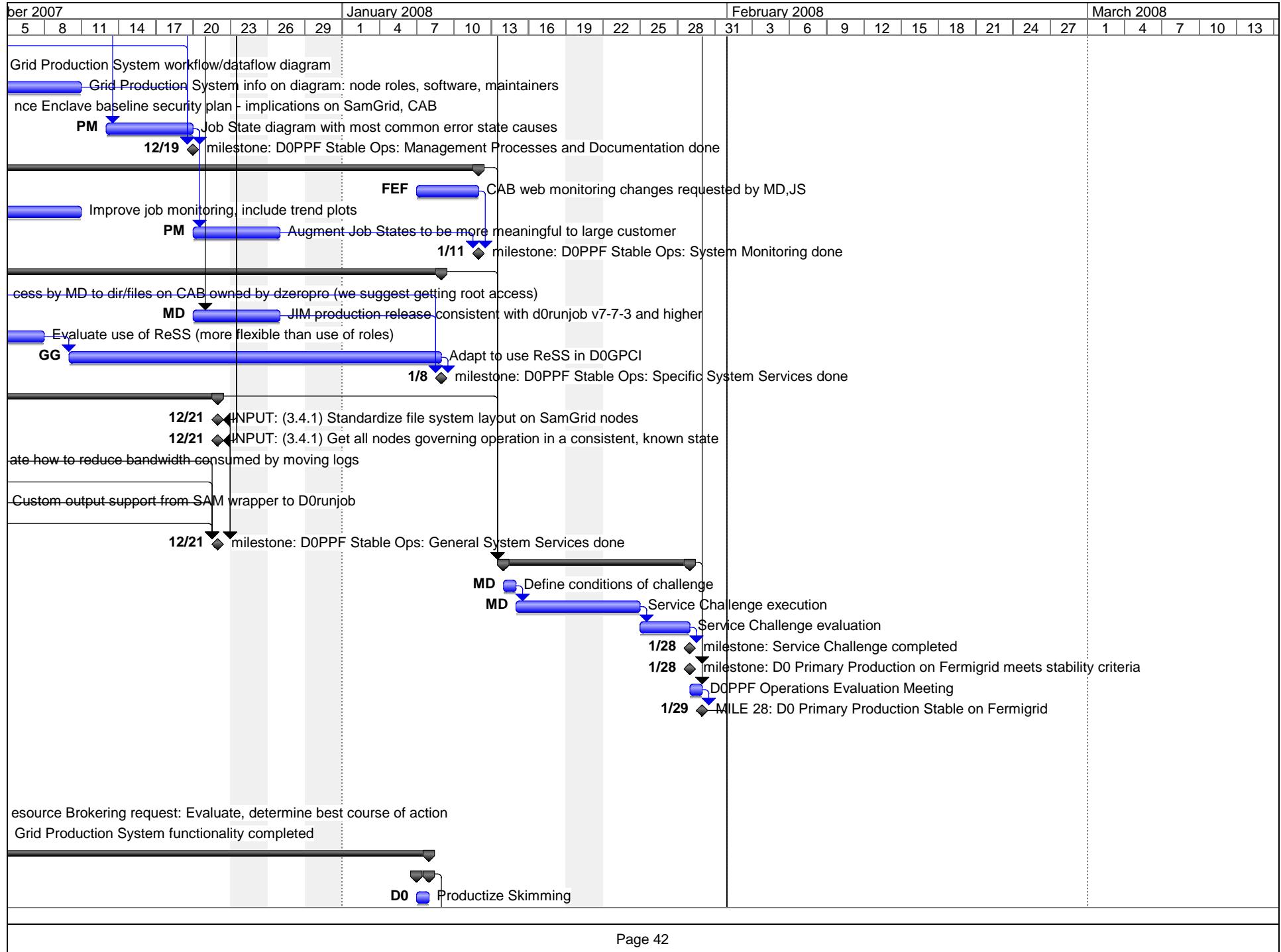
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12/14 ♦ MILE 21: Jim_Client+ - Phase 4/4 of Ops Transfer done																																		
12/14 ♦ milestone: Operations Transfer nominally completed																																		
																																		
																																		
																																		

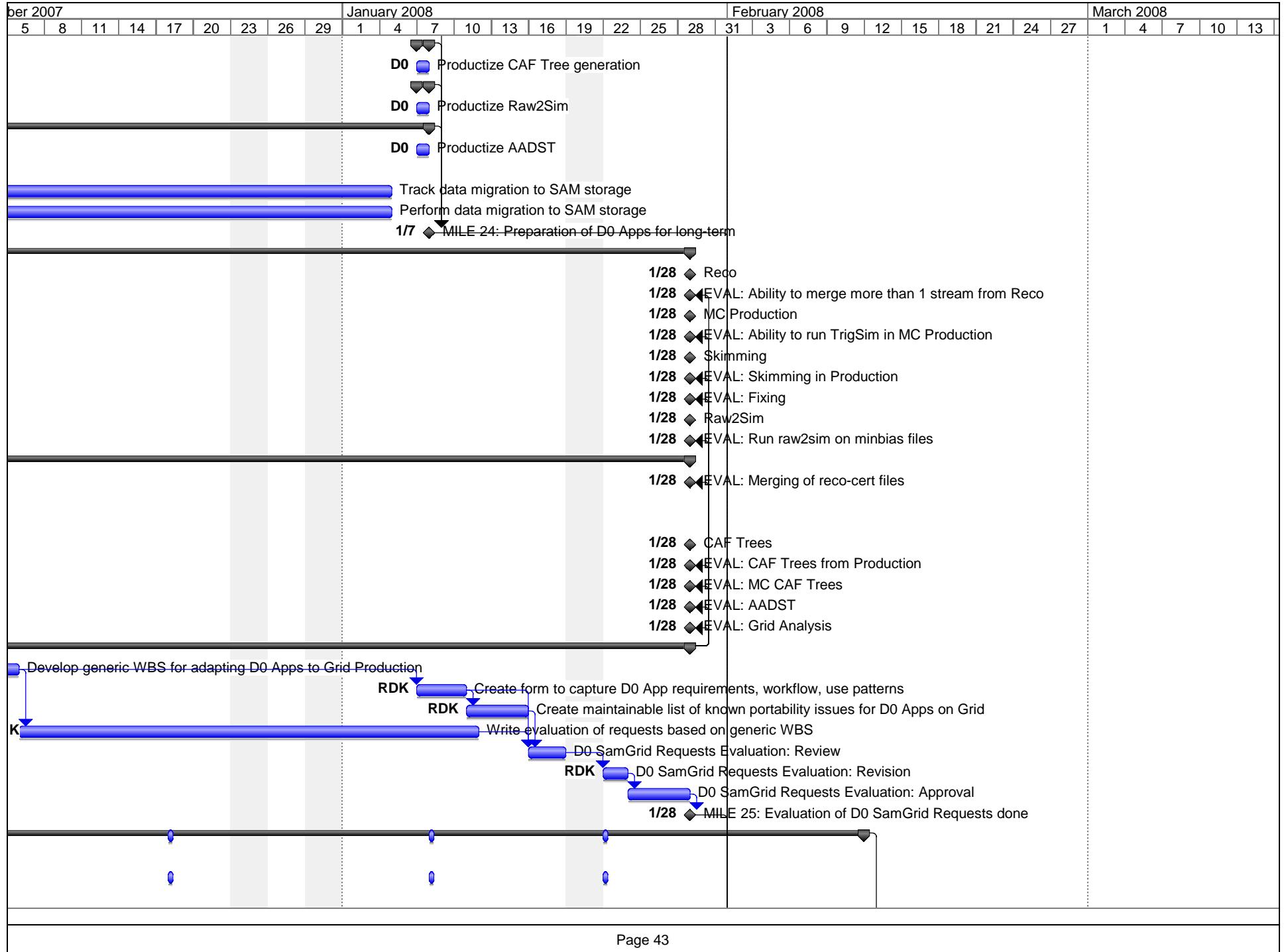


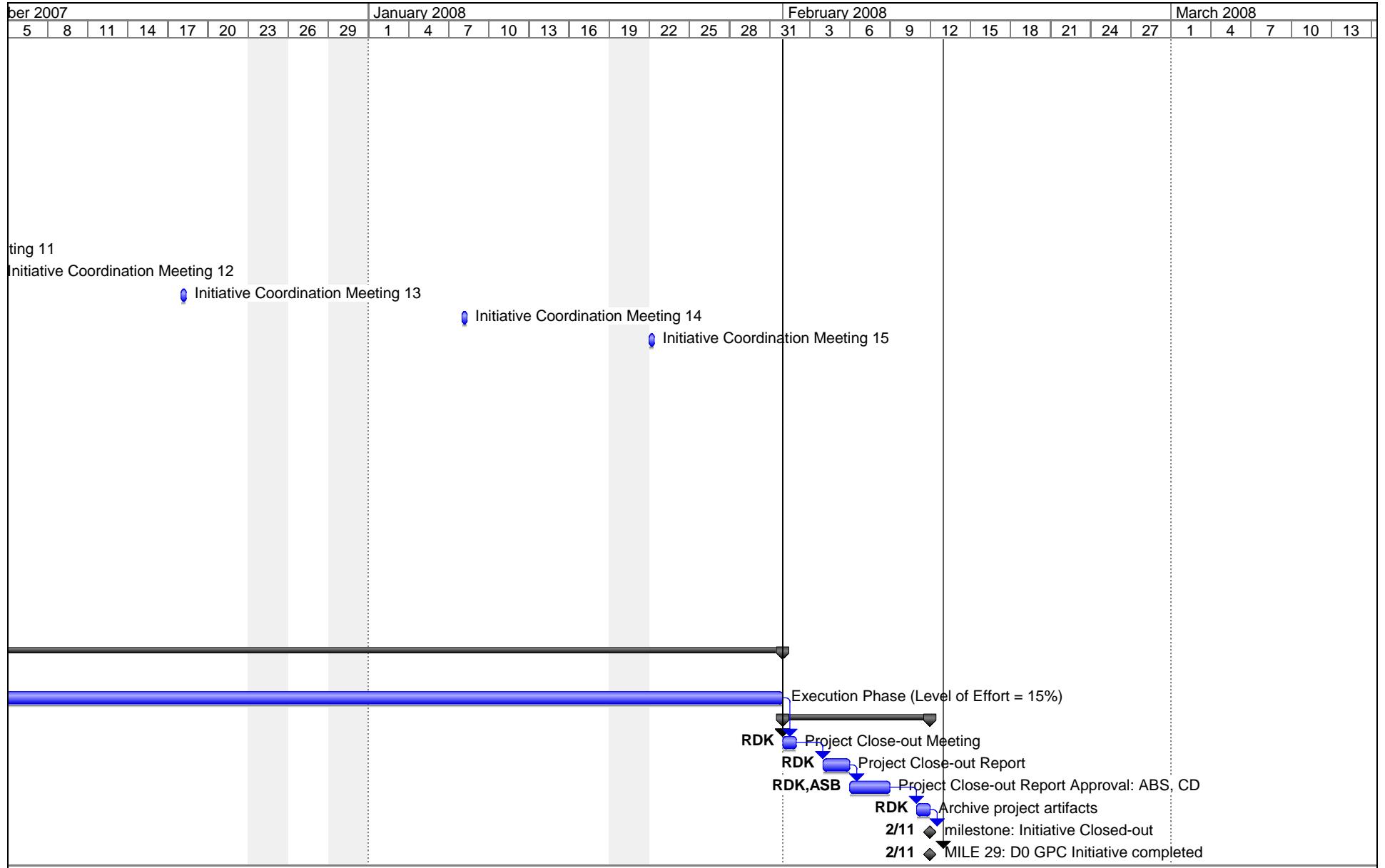












Project: D0 Grid Production Computing Date: Wed 11/21/07	Task		Milestone		External Tasks	
	Split		Summary	 	External Milestone	
	Progress		Project Summary	 	Deadline	